

SAFETY DATA SHEET

Creation Date 08-Jul-2010

Revision Date 26-May-2017

Revision Number 2

1. Identification Product Name Gentamycin Sulfate Cat No. : AC613980000; AC613980010

Synonyms

Garamycin; Gentamycin sulfate

Recommended Use Uses advised against Laboratory chemicals. Not for food, drug, pesticide or biocidal product use

Details of the supplier of the safety data sheet

Company

Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100 Acros Organics One Reagent Lane Fair Lawn, NJ 07410

Emergency Telephone Number

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe**:001-703-527-3887

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Respiratory Sensitization Skin Sensitization Specific target organ toxicity (single exposure) Target Organs - Respiratory system. Category 1 Category 1 Category 3

Label Elements

Signal Word Danger

Hazard Statements

May cause an allergic skin reaction May cause allergy or asthma symptoms or breathing difficulties if inhaled May cause respiratory irritation



Precautionary Statements Prevention

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required In case of inadequate ventilation wear respiratory protection Contaminated work clothing should not be allowed out of the workplace Wear protective gloves Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Response IF exposed or concerned: Get medical attention/advice Inhalation If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Skin IF ON SKIN: Wash with plenty of soap and water If skin irritation or rash occurs: Get medical advice/attention Wash contaminated clothing before reuse Storage Store locked up Store in a well-ventilated place. Keep container tightly closed Disposal Dispose of contents/container to an approved waste disposal plant Hazards not otherwise classified (HNOC)

None identified

3. Composition / information on ingredients

Component		CAS-No	Weight %
Gentamicin, sulfate (sal	t)	1405-41-0	>95
	1	First-aid measures	
	4.	i li st-alu illeasules	
General Advice	If symptoms	persist, call a physician.	
Eye Contact	Rinse immed Obtain medic	liately with plenty of water, also under all attention.	the eyelids, for at least 15 minutes.
Skin Contact	Wash off imm	nediately with plenty of water for at lea	st 15 minutes. Obtain medical attention.
Inhalation	Move to fresh	n air. If breathing is difficult, give oxyge	en. Obtain medical attention.
Ingestion	Do not induce	e vomiting. Obtain medical attention.	
Most important symptoms/effects	allergic skin r	llergy or asthma symptoms or breathin eaction Symptoms of allergic reaction hing, tingling of the hands and feet, diz or flushing	on may include rash, itching, swelling,
Notes to Physician	Treat sympto		
	5. Fi	re-fighting measures	
Suitable Extinguishing Media	Use water sp	ray, alcohol-resistant foam, dry chemi	cal or carbon dioxide.
Unsuitable Extinguishing Media	No informatic	on available	

Flash Point Method -	No information available No information available		
Autoignition Temperature Explosion Limits Upper Lower Sensitivity to Mechanical Impa Sensitivity to Static Discharge	No information available		
Specific Hazards Arising from the Keep product and empty container a		ignition.	
Hazardous Combustion Products Carbon monoxide (CO) Carbon diox Protective Equipment and Precau As in any fire, wear self-contained by protective gear.	tions for Firefighters		ed or equivalent) and full
NFPA Health 2	Flammability 1	Instability 0	Physical hazards N/A
	6. Accidental rel	ease measures	
Personal Precautions Environmental Precautions	Ensure adequate ventilation Should not be released into	n. Use personal protective equi the environment.	pment. Avoid dust formation.
Methods for Containment and Cle Up	an Sweep up or vacuum up sp suitable, closed containers		ntainer for disposal. Keep in
	7. Handling a		
Handling		quipment. Use only under a ch es, on skin, or on clothing. Avoi	
Storage	Keep containers tightly clos	ed in a dry, cool and well-venti	lated place. Keep refrigerated.
8. E	Exposure controls /	personal protection	on
Exposure Guidelines		ain any hazardous materials wi ion specific regulatory bodies.	th occupational exposure
Engineering Measures	Use only under a chemical are close to the workstation		sh stations and safety showers
Personal Protective Equipment			
Eye/face Protection		e eyeglasses or chemical safet ction regulations in 29 CFR 19	
Skin and body protection	Wear appropriate protective	e gloves and clothing to preven	t skin exposure.
Respiratory Protection	EN 149. Use a NIOSH/MSI	regulations found in 29 CFR 1 HA or European Standard EN 1 ed or if irritation or other sympto	
Hygiene Measures	Handle in accordance with	good industrial hygiene and sa	fety practice.

9. Physical and chemical properties

Physical State Appearance Odor **Odor Threshold** pН . Melting Point/Range **Boiling Point/Range** Flash Point **Evaporation Rate** Flammability (solid,gas) Flammability or explosive limits Upper Lower Vapor Pressure Vapor Density **Specific Gravity** Solubility Partition coefficient; n-octanol/water **Autoignition Temperature Decomposition Temperature** Viscosity

Solid White Odorless No information available 3.5 - 5.5 (4 %) 218 - 237 °C / 424 - 459 °F No information available No information available Not applicable No information available

No data available No data available No information available Not applicable No information available Soluble in water No data available

No information available Not applicable

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Incompatible products. Excess heat. Avoid dust formation.
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Product	s Carbon monoxide (CO), Carbon dioxide (CO ₂), Nitrogen oxides (NOx)
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

Gentamicin, sulfate

1405-41-0

Not listed

Component Informa	tion					
Componen	t	LD50 Oral		LD50 Dermal	LC50	Inhalation
Gentamicin, sulfat	e (salt)	>5 g/kg (Rat)		Not listed	No	ot listed
Toxicologically Syn	ergistic	No information ava	ailable			
Products						
Delayed and immed	iate effects as w	ell as chronic effe	cts from short an	d long-term expo	sure	
-						
Irritation		May cause eye, sł	in, and respiratory	tract irritation		
Sensitization		May cause sensiti	zation by inhalatio	n and skin contact		
Carcinogenicity		The table below in	dicates whether ea	ach agency has list	ted any ingredient	as a carcinogen.
T						
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico

Not listed

Not listed

Not listed

Not listed

I		r			1	1
(salt) Mutagenic Effects		No information ava	ailable			
		no momutor ave				
Reproductive Effects		May impair fertility				
Developmental Effects		May cause harm to	o the unborn child.			
Teratogenicity		No information ava	ailable.			
STOT - single exposure STOT - repeated exposu		Respiratory syster None known	n			
Aspiration hazard		No information ava	ailable			
Symptoms / effects,bot delayed	h acute and	Symptoms of aller of the hands and f				0, 0, 0
Endocrine Disruptor Info	ormation	No information ava	ailable			
Other Adverse Effects		The toxicological p complete informati		been fully investig	gated. See actual e	entry in RTECS for
		12. Ecol	ogical infor	mation		
Ecotoxicity						

Do not empty into drains.

Persistence and Degradability	Soluble in water Persistence is unlikely based on information available.
Bioaccumulation/ Accumulation	No information available.
Mobility	Will likely be mobile in the environment due to its water solubility.

 Use Disposal Methods
 Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

	14. Transport information
DOT	Not regulated
DOT TDG	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated
	15. Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Gentamicin, sulfate (salt)	-	-	-	215-778-9	-		Х	Х	Х	Х	Х

Legend: X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated

polymer made with any free-radical initiator regardless of the amount used. P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base

Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

Yes Yes No No No

U.S. Federal Regulations

TSCA 12(b)	Not applicable
SARA 313	Not applicable
SARA 311/312 Hazard Categories Acute Health Hazard Chronic Health Hazard Fire Hazard Sudden Release of Pressure Haz Reactive Hazard	zard
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable

OSHA Occupational Safety and Health Administration Not applicable

CERCLA Not applicable

California Proposition 65

Component	CAS-No	California Prop. 65	Prop 65 NSRL	Category
Gentamicin, sulfate (salt)	1405-41-0	Gentamicin Sulfate	-	
U.S. State Right-to-Know	Not applicable	е		

U.S. State Right-to-Know

Regulations

U.S. Department of Transportation

Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

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No information available

16. Other information	
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date Revision Date Print Date Revision Summary	08-Jul-2010 26-May-2017 26-May-2017 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text

End of SDS