

SAFETY DATA SHEET

Creation Date 09-Jul-2010

Revision Date 18-Jan-2018

Revision Number 4

1. Identification

Product Name

BP906-5

Cat No. :

CAS-No Synonyms 25389-94-0 Kanamycin monosulfate

Kanamycin 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

<u>Company</u>

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

Emergency Telephone Number

CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 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
Skin Sensitization
Reproductive Toxicity

Category 1 Category 1 Category 1B

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 damage fertility. May damage the unborn child



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

Do not breathe dust/fume/gas/mist/vapors/spray

Response

IF exposed or concerned: Get medical attention/advice

Inhalation

IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician

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

Disposal

Dispose of contents/container to an approved waste disposal plant <u>Hazards not otherwise classified (HNOC)</u> None identified

3. Composition/Information on Ingredients

Component		CAS-No	Weight %				
Kanamycin sulphate		25389-94-0	>95				
	4.	First-aid measures					
General Advice	Show this sa required.	fety data sheet to the doctor in attend	ance. Immediate medical attention is				
Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minut the case of contact with eyes, rinse immediately with plenty of water and seek med advice.							
Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Immediate r attention is required.							
Inhalation	Move to fresh air. If not breathing, give artificial respiration. Do not use mouth-to-mo method if victim ingested or inhaled the substance; give artificial respiration with the pocket mask equipped with a one-way valve or other proper respiratory medical dev Immediate medical attention is required.						
Ingestion	Do not induce vomiting. Call a physician or Poison Control Center immediately.						
Most important symptoms and effects	allergic skin	hing, tingling of the hands and feet, d	ng difficulties if inhaled. May cause on may include rash, itching, swelling, izziness, lightheadedness, chest pain,				
Notes to Physician	Treat symptomatically						

5. Fire-fighting measures

Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.			
Unsuitable Extinguishing Media	No information available			
Flash Point Method -	Not applicable No information available			
Autoignition Temperature Explosion Limits Upper Lower Sensitivity to Mechanical Impac Sensitivity to Static Discharge	No data available No data available t No information available No information available			

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous Combustion Products

Carbon monoxide (CO) Carbon dioxide (CO₂) Nitrogen oxides (NOx)

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. Thermal decomposition can lead to release of irritating gases and vapors.

NFPA Health 2	Flammability 1	Instability 0	Physical hazards N/A				
	6. Accidental re	lease measures					
Personal Precautions		uipment. Ensure adequate ve d upwind of spill/leak. Evacua	entilation. Avoid dust formation.				
Environmental Precautions			ale personner to sale aleas.				
Methods for Containment a Up	and Clean Sweep up or vacuum up sp formation.	billage and collect in suitable o	container for disposal. Avoid dust				
	7. Handling	and storage					
Handling		Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Avoid dust formation. Use only under a chemical fume hood. Do not breathe vapors/dust. Do not ingest.					
Storage	Keep containers tightly close	Keep containers tightly closed in a dry, cool and well-ventilated place.					
	8. Exposure controls	/ personal protect	ion				
Exposure Guidelines		ain any hazardous materials v gion specific regulatory bodies					
Engineering Measures	Use only under a chemical are close to the workstation		vash stations and safety showers				
Personal Protective Equip	ment						
Eye/face Protection		e eyeglasses or chemical safe action regulations in 29 CFR 1	ety goggles as described by I910.133 or European Standard				
Skin and body protecti	on Long sleeved clothing.						

Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

	, i i i i goroar a
Physical State	
Appearance	
Odor	
Odor Threshold	
pH	
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/wa	ater
Autoignition Temperature	
Decomposition Temperature	
Viscosity	
Molecular Formula	
Molecular Weight	

Solid White Odorless No information available 6.5 - 8.5 (1 %) No data available No information available Not applicable 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

Not applicable C18H36N4O11.H2SO4 582.58

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 Products Carbon monoxide (CO), Carbon dioxide (CO2), Nitrogen oxide					
Hazardous Polymerization Hazardous polymerization does not occur.					
Hazardous Reactions	None under normal processing.				

11. Toxicological information

Acute Toxicity

Product Information Component Information

een perion in en nation							
Component	LD50 Oral	LD50 Dermal	LC50 Inhalation				
Kanamycin sulphate	17500 mg/kg (Mouse)	Not listed	Not listed				
Toxicologically Synergistic No information available							
Products							
Delayed and immediate effects as well as chronic effects from short and long-term exposure							

Kanamycin Sulfate					Revision	Date 18-Jan-201	
Irritation		No information ava	ailable				
Sensitization		No information ava	ailable				
Carcinogenicity		The table below in	dicates whether ea	ach agency has lis	ted any ingredient	as a carcinogen.	
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico	
Kanamycin sulphate	25389-94-0	Not listed	Not listed	Not listed	Not listed	Not listed	
Autagenic Effects		No information ava	ailable				
Reproductive Effects		May impair fertility.					
Developmental Effect	S	May cause harm to	o the unborn child.				
Teratogenicity		No information ava	ailable.				
STOT - single exposu STOT - repeated expo		None known None known					
Aspiration hazard		No information ava	ailable				
Symptoms / effects,b delayed	ooth acute and	d Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing					
Endocrine Disruptor I	Information	No information available					
Other Adverse Effects	S	The toxicological properties have not been fully investigated.					
		12. Ecolo	ogical infor	mation			
<u>Ecotoxicity</u> Do not empty into drair	IS.						
Persistence and Degr	adability	Soluble in water Pe	ersistence is unlike	ely based on inforr	nation available.		
Bioaccumulation/ Acc	cumulation	No information available.					
Mobility		Will likely be mobile in the environment due to its water solubility.					
		13. Dispo	sal conside	erations			
Waste Disposal Metho	ods	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. Tran	sport infor	mation			
DOT		Not regulated					
TDG Not regulated							
		Not regulated					
IMDG/IMO		Not regulated					
			latory infor				

All of the components in the product are on the following Inventory lists: X = listed

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Kanamycin sulphate	-	-	-	246-933-9	-		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.

U.S. Federal Regulations

TSCA 12(b)	Not applicable					
SARA 313	Not applicable					
SARA 311/312 Hazard Categories	See section 2 for more information					
CWA (Clean Water Act)	Not applicable					
Clean Air Act	Not applicable					
OSHA Occupational Safety and Heal Not applicable	th Administration					
CERCLA	Not applicable					
California Proposition 65	This product does not contain any Proposition 65 chemicals					
U.S. State Right-to-Know Regulations	Not applicable					
U.S. Department of Transportation						
Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N					
U.S. Department of Homeland Security This product does not contain any DHS chemicals.						
Other International Regulations						
Mexico - Grade	No information available					
	16. Other information					
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com					
Creation Date Revision Date Print Date	09-Jul-2010 18-Jan-2018 18-Jan-2018					

Print Date Revision Summary

Disclaimer

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).

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