

SAFETY DATA SHEET

Creation Date 29-Dec-2009

Revision Date 23-May-2017

Revision Number 2

1. Identification Product Name Polymixin B sulfate Cat No. : BP2954-1

Synonyms

No information available

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)

Acute oral toxicity Specific target organ toxicity (single exposure) Target Organs - Central nervous system (CNS). Category 4 Category 3

Label Elements

Signal Word Warning

Hazard Statements

Harmful if swallowed May cause drowsiness or dizziness



Precautionary Statements Prevention Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell Ingestion IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth Storage Store in a well-ventilated place. Keep container tightly closed Store locked up 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 %		
Polymyxin B sulfate		1405-20-5	>95		
4. First-aid measures					
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.				
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.				
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Obtain medical attention.				
Ingestion	Do not induce vomiting. Call a physician or Poison Control Center immediately.				
Most important symptoms/effects Notes to Physician	No information available. Treat symptomatically				
	5. Fire-fig	hting measures			
Suitable Extinguishing Media	Use water spray, alco	phol-resistant foam, dry chemie	cal 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 Impact Sensitivity to Static Discharge	No data available No data available No information availa No information availa				

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

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

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.

<u>NFPA</u>	Health 2	Flammability 1	Instability 1	Physical hazards N/A			
		6. Accidental rel	ease measures				
Personal	Precautions		Use personal protective equipment. Ensure adequate ventilation. Avoid dust formation. Avoid contact with skin, eyes and clothing.				
Environm	ental Precautions	Avoid release to the environ					
Methods Up	for Containment and Clea	an Sweep up or vacuum up sp formation.	illage and collect in suitable co	ontainer for disposal. Avoid dust			
		7. Handling a	and storage				
Handling			quipment. Ensure adequate vented in the skin, eyes and clothing the skin, eyes and clothing the skin, eyes and clothing the skin skin states and clothing the skin skin skin skin skin skin skin skin	entilation. Avoid dust formation. Do			
Storage		Keep refrigerated. Keep co	ntainer tightly closed in a dry a	nd well-ventilated place.			
	8. E	xposure controls	personal protection	on			
Exposure	Guidelines		ain any hazardous materials w ion specific regulatory bodies.	ith occupational exposure			
-	ing Measures Protective Equipment		n, especially in confined areas. se to the workstation location.	Ensure that eyewash stations			
Eye/fa	ace Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.					
Skin a	and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.					
Respi	ratory 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.					
Hygie	ne Measures	Handle in accordance with	good industrial hygiene and sa	afety practice.			
	9. Physical and chemical properties						
Physical 3 Appearan Odor Odor Thre pH Melting P	State nce	2 7 7 7 7	Solid No information available No information available No information available Not applicable No data available				

Boiling Point/Range	Not applicable
Flash Point	Not applicable
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C55H96N16O13.2H2SO4
Molecular Weight	1385.61
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10. Stability and reactivity				
Reactive Hazard	None known, based on information available			
Stability	Hygroscopic. Light sensitive.			
Conditions to Avoid	Avoid dust formation. Incompatible products. Excess heat. Exposure to light. Exposure to moist air or water.			
Incompatible Materials	Strong oxidizing agents			
Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx), Sulfur oxides				
Hazardous Polymerization	Hazardous polymerization does not occur.			
Hazardous Reactions	None under normal processing.			

11. Toxicological information

Acute Toxicity

Product Information Component Informa	-	No acute toxicity information is available for this product						
Componen		LD50 Oral	LD50 Oral LD50 Dermal LC50 Inhalation					
Polymyxin B su		790 mg/kg (Mouse)		Not listed	No	ot listed		
Toxicologically Syn Products	ergistic	No information ava	ilable		·			
Delayed and immed	iate effects as v	vell as chronic effe	cts from short ar	nd long-term expo	osure			
Irritation		No information available						
Sensitization		No information available						
Carcinogenicity		The table below indicates whether each agency has listed any ingredient as a carcinogen.						
Component	CAS-No	IARC NTP ACGIH OSHA Mexic						
Polymyxin B sulfate	1405-20-5	Not listed Not listed Not listed Not listed Not list						
Mutagenic Effects		Mutagenic effects have occured in microorganisms.						

Developmental Effects	No information available.
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Teratogenicity	No information available.		
STOT - single exposure STOT - repeated exposure	Central nervous system (CNS) None known		
Aspiration hazard	No information available		
Symptoms / effects,both acute and delayed	No information available		
Endocrine Disruptor Information	No information available		
Other Adverse Effects	See actual entry in RTECS for complete information. The toxicological properties have not been fully investigated.		
	12. Ecological information		
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

13. Disposal considerations

Will likely be mobile in the environment due to its water solubility.

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 IATA	Not regulated			
IATA	Not regulated			
IMDG/IMO	Not regulated			
15. Regulatory information				

International Inventories

Waste Disposal Methods

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Polymyxin B sulfate	-	Х	-	215-774-7	-		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 Acute Health Hazard Chronic Health Hazard Fire Hazard Sudden Release of Pressure Ha Reactive Hazard	zard	Yes No No No
CWA (Clean Water Act)	Not applicable	
Clean Air Act	Not applicable	
OSHA Occupational Safety and Health Not applicable	h Administration	
CERCLA Not applicable		
California Proposition 65	This product does not co	ntain 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 Secu	rity	

This product does not contain any DHS chemicals.

Other International Regulations

No information available

16. Other information	
Prepared By	Regulatory Affairs
	Thermo Fisher Scientific
	Email: EMSDS.RA@thermofisher.com
Creation Date	29-Dec-2009
Revision Date	23-May-2017
Print Date	23-May-2017
Revision Summary	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