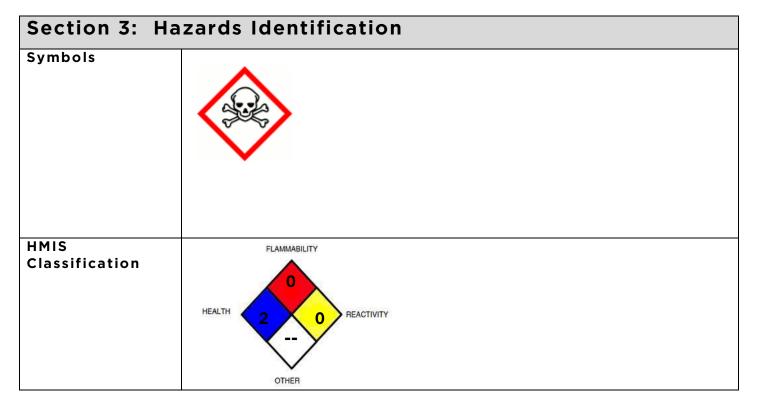


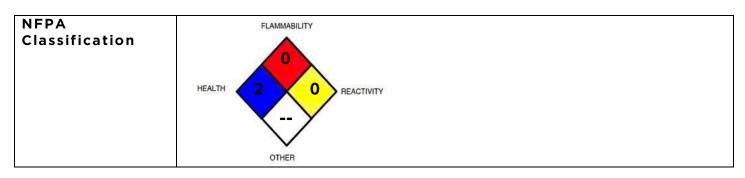
Safety Data Sheet

Section 1: Product & Company Identification		
Product Name:	Colistin Sulfate	
Product #:	C-1465	
Synonyms:	Polymyxin E	
Supplier:	AG Scientific Holdings, LLC 9950 Scripps Lake Drive, Suite 104 San Diego, CA 92131 Tele# + 858-452-9925	
Emergency Tele#:	ChemTel, Tele# in USA 1-800-255-3924, International 1-813-248-0585	

Section 2: Composition / Information on Ingredients			
Component	CAS#	EC#	% Composition
Colistin Sulfate	1264-72-8	215-034-3	







Section 4: First Aid Measures		
General	Show this material safety data sheet to the doctor in attendance.	
Overview:		
Inhalation:	Fresh air	
Skin:	Take off all contaminated clothing immediately	
Eyes:	Rinse eyes with plenty of water. Remove contact lenses.	
Ingestion:	Give water to drink (two glasses at most). Seek medical advice immediately. In exceptional cases only, if medical care is not available within one hour, induce vomiting (only in persons who are wide awake and fully conscious), administer activated charcoal (20 - 40 g in a 10% slurry) and consult a doctor as quickly as possible.	
	See section 11 for more detailed information on health effects & symptoms.	

SECTION 5:	Fire Fighting Measures
Flammability of	No data available
the product:	
Extinguishing	No limitations of extinguishing agents are given.
Media:	
Hazardous	Carbon oxides, Nitrogen oxides (NOx), Sulfur oxides
thermal	
(de)composition	
products:	
Special Fire	Stay in danger area only with self-contained breathing apparatus. Prevent skin
Fighting	contact by keeping a safe distance or by wearing suitable protective clothing.
Procedures:	
Flash Point:	No data available

Section 6: A	ccidental Release Measures
Personal Precautions:	Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.
Environmental Precautions:	Do not let product enter drains.



Methods for	Cover drains. Collect, bind, and pump off spills. Observe possible material
Clean-up:	restrictions (see sections 7 and 10). Take up carefully. Dispose of properly.
	Clean up affected area. Avoid generation of dusts.

SECTION 7:	Handling & Storage
Storage:	Store in a tightly closed container. Keep dry in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons. Store at room temperature.
Handling:	See Section 8

SECTION 8: Exposure controls / Personal Protection Respiratory Protection: Respiratory protection required when dusts are generated. Skin and Body: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Protective clothing. Eyes:



	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses.
Ventilation/Engineering	Do not let product enter drains.
Measures:	
Hygiene:	Handle in accordance with good industrial hygiene and safety
	practice.
Other:	N/A

SECTION 9: Physical and Chemical Properties		
Appearance &	White to off-white powder	
Odor:		
Formula	2(C ₅₂ H ₉₈ N ₁₆ O ₁₃) • 5H ₂ SO ₄	
Molecular Wt.	2801.3	
Melting Pt.	No data available	
Boiling Pt.	No data available	
Density:	No data available	
Vapor Pressure:	No data available	
Evaporation Rate:	No data available	
Vapor Density:	No data available	
Solubility:	Water	
Flash Point:	No data available	
Autoignition	No data available	
Temp:		

SECTION 10: Stability and Reactivity		
Stability:	Stable under recommended storage conditions.	
Hazardous	In the event of fire, see Section 5	
decomposition		
products:		
Materials to Avoid:	Oxidizing agents, strong acids	
Conditions to avoid:	No data available	

SECTION 11: Toxicological Information		
RTECS#:	TR1500000	
ACUTE Toxicity:	LD50 Oral = 121 mg/kg (Rat)	
CHRONIC Toxicity:	prolonged or repeated exposure can cause: Neurotoxic effects, Liver injury may occur, Anorexia, Headache, Vomiting, Diarrhea, Nausea, Ataxia. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.	
	Stomach - Irregularities - Based on Human Evidence	



	Stomach - Irregularities - Based on Human Evidence
Chronic Exposure:	IARC: No component of this product present at levels greater than or
Carcinogen:	equal to 0.1% is identified as probable, possible, or confirmed human
Mutagen:	carcinogen by IARC.
Teratogen:	AGGIH: No component of this product present at levels greater than or
Reproductive:	equal to 0.1% is identified as probable, potential human carcinogen by ACGIH.
	NTP: No component of this product present at levels greater than or equal to 0.1% is identified as known or anticipated human carcinogen by NTP.
	OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as known or potential human carcinogen by OSHA.
	EPA: No classification on carcinogenic data is available from EPA

SECTION 12: Ecological Information		
Ecotoxicity:	No data available	
Mobility:	No data available	
Persistence and degradability:	No data available	
Bioaccumulative potential:	No data available	
Other adverse effects:	No data available	
Corrosivity Characteristic:	No data available	
General Notes:	To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.	

SECTION 13: Disposal Considerations		
Residue Waste or Unused product:	Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.	
Contaminated Packaging:	Dispose of according to official regulations.	

SECTION 14: Transportation Information		
UN ID#:	UN2811	
ADR / RID (LAND):	N/A	
DOT regulations:	UN Number: 2811	
	Class 6.1	
	Packing group: III	



	Proper shipping name: Toxic solids, organic, n.o.s. (colistin, sulphate
	(salt))
IMDG/IMO (SEA):	UN Number: 2811
	Class 6.1
	Packing group: III
	EMS-No: F-A, S-A
	Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (colistin, sulphate
	(salt))
IATA/DGR (AIR):	UN Number: 2811
	Class 6.1
	Packing group: III
	Proper shipping name: Toxic solid, organic, n.o.s. (colistin, sulphate (salt))
Special Provisions:	N/A

SECTION 15: Regulatory Information		
Health Phrases:	Danger!	
	H301 Toxic if swallowed.	
Risk Phrases:	P264 Wash skin thoroughly after handling.	
	P270 Do not eat, drink or smoke when using this product.	
Safety Phrases:	P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON	
	CENTER/ doctor. Rinse mouth.	
	P405 Store locked up	
	P501 Dispose of contents/ container to an approved waste disposal plant.	
EU Regulations:	N/A	
US Regulations:	TSCA: Not listed	
	California Proposition 65: No products were found	
	New Jersey State Right to Know: Listed	
	Pennsylvania State Right to Know: Listed	
U.S. Federal Regulations:	SARA 302/304 emergency planning and notification: No products were found.	
	SARA 311/312 MSDS distribution-chemical inventory-hazard	
	identification: Acute Health Hazard, Chronic Health Hazard	
	SARA 313 toxic chemicals notification and release reporting: No products	
	were found.	
	Clean Water Act (CWA) 307: No products were found.	
	Clean Water Act (CWA) 311: No products were found.	
	Clean Air Act (CAA) 112 accidental release prevention: No products were found.	
	Clean Air Act (CAA) 112 regulated flammable substances: No products were found.	
	Clean Air Act (CAA) 112 regulated toxic substances: No products were found.	
	OSHA: No products were found.	
WHMIS (Canada):	N/A	



SECTION 16: Other Information

LIABILITY STATEMENT: The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. AG Scientific shall not be held liable for any damages resulting from handling or from contact with the above product. AG Scientific products are for research purposes only. Not for human use or consumption.