

# Charm Sciences, Inc.

## SAFETY DATA SHEET

In compliance with U.S. CFR 1910.1200 (d), *OSHA Hazard communication, Hazard classification.*

### 1. Identification

**Product Name: ANTIBIOTIC STANDARDS, CONTROLS AND POSITIVE TABLETS -** including 10 ppb Amoxicillin Standard; 10 ppb Ampicillin Standard; 100 ppb Ceftiofur Metabolites Reference Control; 10mL 0.3 ppb Chloramphenicol Standard; 10 ppb Chloramphenicol Standard; Chloramphenicol Positive Tablet; Enrofloxacin Positive Tablet; 40 ppb Erythromycin Standard; 5 ppb Florfenicol Standard; 2 ppb Flunixin Standard; 2 ppb Flunixin and 5 ppb Penicillin G Standard; MRL Multi-Antimicrobial Standard; MRLBLTET/TET Positive Tablet; Multi-Antimicrobial Standard; 100 ppb Oxytetracycline Standard; Penicillin G and Tetracycline Positive Tablet; 0.01 IU/mL & 0.008 IU/mL Penicillin G Standard; 4 ppb, 5 ppb & 50 ppb Penicillin G Standard; Penicillin G Positive Tablet; 100 ppb & 300 ppb Pirlimycin Positive Control or Standard; ROSA Anti-Microbial Positive Tablet; 200 ppb Spiramycin Standard; Streptomycin Positive Tablet (10ppb Streptomycin Standard); Sulfamethazine Positive Tablet; 10 ppb Sulfamethazine Standard; Tetracycline Positive Tablet; Tetracycline SL Positive Tablet; and TRIO Positive Standard.

**Manufacturer:** Charm Sciences Inc.

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### 2. Hazards Identification

CLASSIFICATION (GHS): Not classified.

LABELLING (GHS):

Symbol: None

Signal Word: None.

Hazard Statement: None.

Precautionary Statement: None.

NFPA (National Fire Protection Association) RATING – Information provided for those trained in the NFPA system.

Health: 1

Flammability: 0

Reactivity: 0

Other: -

HEALTH EFFECTS OR RISKS FROM EXPOSURE:

Acute: None identified.

Chronic: None identified.

Reproductive: None identified.

OTHER HAZARDS/ MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Persons sensitive to beta-lactam drugs (including amoxicillin, ampicillin, and penicillin), enrofloxacin, aminoglycosides (including gentamicin, kanamycin, neomycin, spectinomycin and streptomycin), lincomycin, tylosin, pirlimycin, chloramphenicol and sulfonamides (including sulfadimethoxine and sulfamethazine) can possibly have allergic reactions to the product by inhalation or by skin contact.



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### 3. Composition/ Information on Ingredients

These chemicals and the balance of other ingredients that total 100% in each product are not classified as hazardous, as defined in 29 CFR 1910.1200 (d), *OSHA Hazard communication, Hazard classification.*

<b>ANTIBIOTIC STANDARDS, CONTROLS, and POSITIVE TABLETS</b>		10 ppb Amoxicillin Standard	10 ppb Ampicillin Standard	100 ppb Cefotiofur Metabolites Reference Control	10mL 0.3ppb Chloramphenicol Standard	10 ppb Chloramphenicol Standard	Chloramphenicol Positive Tablet
<b>Product Name:</b>							
Item/Order Code(s):		AMOX10	AMP	LF-CEFTMET	LF-QUAD-PC	CHLOR	LF-CHLOR-xx-TBL
Reagent Lot Code(s):		AMOX10	AMP10	CM10	QUAD-PC	CAP10	CHLOR-PT
<b>CHEMICAL</b>	<b>CAS #</b>	<b>% in Bottle or Tablet</b>					
Amoxicillin	26787-78-0	<0.001	NA	NA	NA	NA	NA
Ampicillin	69-53-4	NA	<0.001	NA	NA	NA	NA
Chloramphenicol	56-75-7	NA	NA	NA	<0.0001	<0.0006	<0.00001
Desfuroylcefotiofur	20882-22-6	NA	NA	<0.07	NA	NA	NA

<b>ANTIBIOTIC STANDARDS, CONTROLS, and POSITIVE TABLETS</b>		Enrofloxacin Positive Tablet	40 ppb Erythromycin Standard	5 ppb Florfenicol Standard	2 ppb Flunixin Standard	MRL Multi-Antimicrobial Standard	MRLBLTET/TET Positive Tablet
<b>Product Name:</b>							
Item/Order Code(s):		LF-ENRO-xx-TBL	LF-ERYTH40	LF-FLOR-PS	LF-FLUNIXIN	MRL-MA	LF-PGOT
Reagent Lot Code(s):		ENRO-PT	ERYTH40	FLOR-PS	FLU	MRL	PGOT
<b>CHEMICAL</b>	<b>CAS #</b>	<b>% in Bottle or Tablet</b>					
Citric Acid	77-92-9	NA	NA	NA	NA	NA	<20
Chloramphenicol	56-75-7	NA	NA	NA	NA	<0.00002	NA
Enrofloxacin	93106-60-6	<0.0001	NA	NA	NA	NA	NA
Erythromycin	114-07-8	NA	<0.005	NA	NA	<0.003	NA
Florfenicol	73231-34-2	NA	NA	<0.001	NA	NA	NA
Flunixin	42461-84-7	NA	NA	NA	<0.0001	NA	NA
Gentamicin sulfate	1405-41-0	NA	NA	NA	NA	<0.006	NA
Oxytetracycline	6153-64-6	NA	NA	NA	NA	<0.006	<0.002
Penicillin G	113-98-4	NA	NA	NA	NA	<0.0003	<0.0001
Sulfamethazine	57-68-1	NA	NA	NA	NA	<0.006	NA

NA = Not Applicable

<b>ANTIBIOTIC STANDARDS, CONTROLS, and POSITIVE TABLETS</b>		<b>Multi-Antimicrobial Standard</b>	<b>100 ppb Oxytetracycline Standard (10 mL)</b>	<b>Penicillin G and Tetracycline Positive Tablet</b>	<b>0.01 IU/mL &amp; 0.008 IU/mL Penicillin G Standard</b>	<b>4 ppb, 5 ppb &amp; 50 ppb Penicillin G Standard</b>	<b>Penicillin G Positive Tablet</b>
<b>Product Name:</b>							
Item/Order Code(s):		MA	OT100	PGTET-PT	PG008 PG01	PG4; PG5 PG50	LF-PG5-xx-TBL
Reagent Lot Code(s):		MA	OT10	PGTET-PT	30xxx	33xxx	STD P
<b>CHEMICAL</b>	<b>CAS #</b>	<b>% in Bottle or Tablet</b>					
Citric Acid	77-92-9	NA	NA	NA	NA	NA	<25
Chloramphenicol	56-75-7	<0.0002	NA	NA	NA	NA	NA
Erythromycin	114-07-8	<0.006	NA	NA	NA	NA	NA
Gentamicin sulfate	1405-41-0	<0.004	NA	NA	NA	NA	NA
Oxytetracycline	6153-64-6	<0.004	<0.0006	NA	NA	NA	NA
Penicillin G	113-98-4	NA	NA	<0.0001	<0.0005	<0.0001	<0.0001
Sulfamethazine	57-68-1	<0.002	NA	NA	NA	NA	NA
Tetracycline	64-75-5	NA	NA	<0.0002	NA	NA	NA

<b>ANTIBIOTIC STANDARDS, CONTROLS, and POSITIVE TABLETS</b>		<b>100 ppb &amp; 300 ppb Pirlimycin Positive Control or Standard</b>	<b>ROSA Multi-Antimicrobial Positive Tablet</b>	<b>200 ppb Spiramycin Standard</b>	<b>Streptomycin Positive Tablet</b>	<b>Sulfamethazine Positive Tablet</b>
<b>Product Name:</b>						
Item/Order Code(s):		LF-PIRL100-PS LF-PIRL300-PS	LF-QUAD-PT	SPIR200	LF-STREP-xx-TBL	LF-SMZ-PT-xx
Reagent Lot Code(s):		PIRL-PS PIRL300-PS	QUAD-PT	SPIR200	STREP-PT	SMZ-PT
<b>CHEMICAL</b>	<b>CAS #</b>	<b>% in Bottle or Tablet</b>				
Chloramphenicol	56-75-7	NA	<0.0001	NA	NA	NA
Ciprofloxacin	86393-32-0	NA	<0.005	NA	NA	NA
Erythromycin	114-07-8	NA	<0.005	NA	NA	NA
Gentamicin sulfate	1405-41-0	NA	<0.01	NA	NA	NA
Kanamycin	25389-94-0	NA	<0.01	NA	NA	NA
Lincomycin	7179-49-9	NA	<0.01	NA	NA	NA
Neomycin	1405-10-3	NA	<0.01	NA	NA	NA
Penicillin G	113-98-4	NA	<0.0001	NA	NA	NA
Pirlimycin	78822-40-9	<0.03	NA	NA	NA	NA
Spectinomycin	22189-32-8	NA	<0.01	NA	NA	NA
Spiramycin	8025-81-8	NA	NA	<0.003	NA	NA
Streptomycin	3810-74-0	NA	<0.01	NA	<0.002	NA
Sulfamethazine	57-68-1	NA	<0.005	NA	NA	<0.0002
Tetracycline	64-75-5	NA	<0.005	NA	NA	NA
Tylosin	1405-54-5	NA	<0.01	NA	NA	NA

NA = Not Applicable

<b>ANTIBIOTIC STANDARDS, CONTROLS, and POSITIVE TABLETS</b>		<b>10 ppb Sulfamethazine Standard (10 mL)</b>	<b>10 ppb Sulfamethazine Standard (100 mL)</b>	<b>Tetracycline Positive Tablet</b>	<b>Tetracycline SL Positive Tablet</b>	<b>Trio Positive Standard</b>
<b>Product Name:</b>						
Item/Order Code(s):		LF-SM	SM	LF-TET10-5-TBL	LF-PGOT	LF-TRIO-PS
Reagent Lot Code(s):		SMZ10	SM	TET-PT	PGOT	TRIO-PS
<b>CHEMICAL</b>	<b>CAS #</b>	<b>% in Bottle or Tablet</b>				
Citric Acid	77-92-9	NA	NA	NA	<20	NA
Oxytetracycline	6153-64-6	NA	NA	NA	<0.002	<0.006
Penicillin G	113-98-4	NA	NA	NA	<0.0001	<0.001
Sulfadimethoxine	122-11-2	NA	NA	NA	NA	<0.001
Sulfamethazine	57-68-1	<0.0002	<0.03	NA	NA	NA
Tetracycline	64-75-5	NA	NA	<0.0002	NA	NA

NA = Not Applicable

#### 4. First Aid Measures

EYE: Flush with water. If irritation occurs and persists, seek medical attention.

SKIN: Wash with soap and water. If symptoms of allergic reaction occur, seek medical attention.

INHALATION: Move to fresh air. If symptoms of allergic reaction occurs, seek medical attention.

INGESTION: Flush out mouth with water. If symptoms of allergic reaction occur, seek medical attention

#### 5. Fire Fighting Measures

SUITABLE EXTINGUISHING MEDIA: Use extinguishing media appropriate for the surrounding fire.

FIREFIGHTING PROCEDURES: Firefighters should wear proper protective equipment, and if necessary self-contained breathing apparatus.

HAZARDOUS COMBUSTION PRODUCTS: Irritating or toxic fumes may be produced upon thermal decomposition.

#### 6. Accidental Release Measures

PERSONAL PRECAUTIONS: Chemical safety goggles, gloves, and lab coat are recommended.

ENVIRONMENTAL PRECAUTIONS: None.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Avoid raising and inhaling dust or aerosols. Carefully sweep up (dry powder) or take up with absorbent material (liquids). Place in marked, sealed containers and hold for waste disposal. Wash spill site after pickup is complete.

#### 7. Handling and Storage

SAFE HANDLING PRECAUTIONS: Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Wash hands thoroughly after handling.

SAFE STORAGE CONDITIONS: Air and Light Sensitive. Keep tightly closed. Store all products as directed on label and/or Operator's Manual.

#### 8. Exposure Controls/ Personal Protection

ENGINEERING CONTROLS: Eyewash station is available. Mechanical exhaust not required under normal use.

EXPOSURE LIMITS: No data available.

PERSONAL PROTECTIVE EQUIPMENT:

CLOTHING: Lab coat recommended.

RESPIRATORY: None required.

HAND: Gloves recommended.

EYE: Safety goggles recommended.

## 9. Physical and Chemical Properties

APPEARANCE: Freeze-dried pellet or solid tablet, natural color, odorless.

pH: Not applicable.

Flammability (solid, gas): Not applicable.

Boiling Point and Range: Not applicable.

Upper/Lower Flammability Limits: Not applicable.

Melting / Freezing Point: Not applicable.

Vapor Pressure: Not applicable.

Vapor/ Relative Density: Not applicable.

Solubility: In water, complete, cloudy.

Flash Point: Not applicable.

Auto-ignition Temperature: Not applicable.

Evaporation Rate: Not applicable.

Viscosity: Not applicable.

## 10. Stability and Reactivity

CHEMICAL STABILITY: Stable

CONDITIONS TO AVOID: Protect from heat, light and moisture until ready to reconstitute.

MATERIALS TO AVOID: Strong oxidizing agents; Bases; Strong acids.

HAZARDOUS REACTIONS/ DECOMPOSITION PRODUCTS: May include carbon monoxide, carbon dioxide, nitrogen oxides, sulfur oxides, phosphorus oxides, hydrogen bromide and other toxic fumes.

## 11. Toxicological Information

ACUTE TOXICITY: No data available

INHALATION: No data available.

SKIN IRRITATION: No data available.

EYE IRRITATION: No data available.

RESPIRATORY OR SKIN SENSITIZATION: No data available, but beta-lactam drugs (including amoxicillin, ampicillin, and penicillin), enrofloxacin, aminoglycosides (including gentamicin, kanamycin, neomycin, spectinomycin and streptomycin), lincomycin, tylosin, chloramphenicol and sulfonamides (including sulfadimethoxine and sulfamethazine) can possibly cause in sensitized persons allergic reactions by inhalation or by skin contact.

GERM CELL MUTAGENICITY: No data available.

CARCINOGENICITY: No component in these products present at levels greater than or equal to 0.1% have been identified as a probable, possible or confirmed human carcinogen by IARC, as a carcinogen or potential carcinogen by ACGIH, as a known or anticipated carcinogen by NTP, or as a carcinogen or potential carcinogen by OSHA.

REPRODUCTIVE TOXICITY: No data available.

SPECIFIC TARGET ORGAN TOXICITY - single exposure (GHS): No data available.

SPECIFIC TARGET ORGAN TOXICITY - repeated exposure (GHS): No data available.

ASPIRATION HAZARD: No data available.

### POTENTIAL HEALTH EFFECTS:

Skin: Not classified for dermal effects.

Eye: Not classified for eye effects.

Inhalation: Not classified for inhalation effects.

Ingestion: Not classified for oral effects.

## 12. Ecological Information

TOXICITY: No data available.

PERSISTENCE AND DEGRADABILITY: No data available.

BIOACCUMULATIVE POTENTIAL: No data available.

OTHER ADVERSE EFFECTS: No data available.

## 13. Disposal Considerations

PRODUCT: Unused products are considered non-hazardous waste according to Federal US EPA regulations (40 CFR 261). Avoid any broken glass from container (Multi-Antimicrobial Standard is in a shatter proof bottle). Avoid inhalation. Dispose of all wastes in accordance with federal, state and local regulations.

PREPARATION: Re-hydrated standards contain typical regulatory levels of antimicrobials (e.g. the maximum level allowed in foods) and are considered non-hazardous wastes according to Federal US EPA regulations (40 CFR 261). Dispose according to state and local regulations that pertain to food disposal.

## 14. Transport Information

DOT: Not considered hazardous or dangerous for transport; Not regulated for transport by DOT.

IATA: Not considered hazardous or dangerous for transport; Not regulated for transport by IATA.

IMDG: Not considered hazardous or dangerous for transport; Not regulated for transport by IMDG.

## 15. Regulatory Information

### UNITED STATES REGULATORY INFORMATION

TSCA Listed: All components are listed or exempt from being listed.

SARA 302 LIST: No components are subject to reporting requirements.

SARA 313 LIST: No components exceed the threshold reporting requirements.

### UNITED STATES STATE REGULATORY INFORMATION

CALIFORNIA Proposition 65: CAS # 3810-74-0, Streptomycin is listed for reproductive (developmental) toxicity.

MASSACHUSETTS RIGHT TO KNOW: CAS # 56-75-7, Chloramphenicol is listed.

NEW JERSEY RIGHT TO KNOW: No chemicals are listed.

PENNSYLVANIA RIGHT TO KNOW: CAS # 56-75-7, Chloramphenicol is listed.

### CANADA REGULATORY INFORMATION

DSL Listed: All components are listed or exempt from being listed.

## 16. Other Information

PREPARATION DATE: 11 Mar 2020

REVISION NUMBER: 015

The above information and recommendations are based upon information believed to be accurate, but does not imply to be all-inclusive and shall be used only as a guide. All materials may present unknown hazards and should be used with caution and discretion. Charm Sciences and its affiliates shall not be held liable for any injury or damage resulting from handling or from contact with the above product.