

MATERIAL SAFETY DATA SHEET

SECTION 1--PRODUCT IDENTIFICATION AND USE				
PRODUCT IDENTIFIER > Campylobacter Supplement (CFP)			CATALOGUE NUMBER: LC28	
MANUFACTURER'S NAME Dalynn Biologicals Inc.		SUPPLIER'S NAME Dalynn Biologicals Inc.		
STREET ADDRESS 3253 - 34 Avenue N.E.		STREET ADDRESS 3253 - 34 Avenue N.E.		
CITY Calgary	PROVINCE Alberta	CITY Calgary	PROVINCE Alberta	
POSTAL CODE T1Y 6X2	CHEMICAL EMERGENCY ONLY: 1-613-996-6666		POSTAL CODE T1Y 6X2	CHEMICAL EMERGENCY ONLY: 1-613-996-6666
SECTION 2--HAZARDOUS INGREDIENTS				
HAZARDOUS INGREDIENTS	%	CAS NUMBER	LD ₅₀ OF INGREDIENT (SPECIFY SPECIES AND ROUTE)	LC ₅₀ OF INGREDIENT (SPECIFY INGREDIENT)
Cefoperazone (16 mg/vial)	100	62893-20-3	Oral - Rat 12 g/kg	Not applicable
SECTION 3--PHYSICAL DATA				
PHYSICAL STATE Solid	ODOUR AND APPEARANCE Odorless, white crystalline powder			ODOUR THRESHOLD (ppm) Not available
VAPOUR PRESSURE (mmHg) Not available	VAPOUR DENSITY (AIR=1) Not available	EVAPORATION RATE Not available	BOILING POINT (°F) Not available	FREEZING POINT (°F) Not available
PH Not available	SPECIFIC GRAVITY Not available	COEFF. WATER/OIL DIST. Not available		
SECTION 4--FIRE AND EXPLOSION DATA				
FLAMMABLE YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> IF YES, UNDER WHICH CONDITIONS? > Upon exposure to open flame				
MEANS OF EXTINCTION Carbon dioxide, dry chemical powder, alcohol foam, or water spray.				
FLASHPOINT (°C) AND METHOD Not available		UPPER FLAMMABLE LIMIT (% BY VOLUME) Not available		LOWER FLAMMABLE LIMIT (% BY VOLUME) Not available
AUTOIGNITION TEMPERATURE (°C) Not available		HAZARDOUS COMBUSTION PRODUCTS Carbon monoxide, carbon dioxide, nitrogen oxides, sulfur oxides		
EXPLOSION DATA > SENSITIVITY TO IMPACT No			SENSITIVITY TO STATIC DISCHARGE No	
SECTION 5--REACTIVITY DATA				
CHEMICAL STABILITY YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> IF NO, UNDER WHICH CONDITIONS? >				
INCOMPATIBILITY WITH OTHER SUBSTANCES YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> IF SO, WHICH ONES? Oxidizing agents				
REACTIVITY, AND UNDER WHAT CONDITIONS No				
HAZARDOUS DECOMPOSITION PRODUCTS Carbon monoxide, carbon dioxide, nitrogen oxides, sulfur oxides				

PRODUCT		Campylobacter Supplement (CFP)	
IDENTIFIER >			
SECTION 6—TOXICOLOGICAL PROPERTIES			
ROUTE OF ENTRY			
SKIN CONTACT	[X]	SKIN ABSORPTION	[X]
EYE CONTACT	[X]	INHALATION	[X]
		INGESTION	[X]
EFFECTS OF ACUTE EXPOSURE TO PRODUCT			
<p>Cefoperazone is an irritant and may cause eye and skin irritation on contact. Symptoms include redness and swelling. Cefoperazone ingestion and inhalation will give clinical signs and hepatitis-like symptoms, interference with hemostasis via hypoprothrombinemia with or without bleeding, molecular attachment that prevents activation of prothrombin, platelet dysfunction. Associated coagulopathies include: hypoprothrombinemia, platelet abnormalities, immune-mediated thrombocytopenia. Headache. Hypotension. Skin rash, itching, diarrhea, eosinophilia, vomiting, possible alterations in liver and kidney function, decreased hemoglobin level. Exposure can cause allergic reactions: Because of the similarity in structure of the penicillins and cephalosporins, those who are allergic to one class of agents may manifest cross-allergenicity when a member of the other class is encountered.</p>			
EFFECTS OF CHRONIC EXPOSURE TO PRODUCT			
<p>The chronic toxicological effects of exposure to this product have not been thoroughly investigated.</p>			
EXPOSURE LIMITS	IRRITANCY OF PRODUCT	SENSITISATION TO PRODUCT	CARCINOGENICITY
Not available	Yes	Yes	Not available
TERATOGENICITY	REPRODUCTIVE TOXICITY	MUTAGENICITY	SYNERGISTIC PRODUCTS
Not available	Not available	Not available	Not available
SECTION 7—PREVENTIVE MEASURES			
PERSONAL PROTECTIVE EQUIPMENT:			
<p>Wear appropriate protective clothing: Chemical resistant gloves, safety goggles, lab coat or other appropriate clothing that covers arms and other open body parts.</p>			
ENGINEERING CONTROLS (SPECIFY, EG, VENTILATION, ENCLOSED PROCESS)			
<p>Use in area with adequate ventilation.</p>			
LEAK AND SPILL PROCEDURE			
<p>Wearing appropriate safety gear including chemical resistant gloves and dust mask or respirator should be used. Sweep up, place in bag and hold for disposal. Ventilate area and wash spill site after material pickup is complete.</p>			
WASTE DISPOSAL			
<p>Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. According to local, provincial and federal regulations.</p>			
HANDLING PROCEDURES AND EQUIPMENT			
<p>Avoid direct and prolonged contact. Wash thoroughly after handling.</p>			
STORAGE REQUIREMENTS			
<p>Keep at refrigerated temperatures.</p>			
SPECIAL SHIPPING INFORMATION			
<p>This product is considered non-hazardous for transport.</p>			
SECTION 8—FIRST AID MEASURES			
<p>In case of contact with eyes, rinse with copious amounts of water for at least 15 minutes. In case of contact with skin, wash with copious amounts of water for at least 15 minutes. Remove contaminated clothing. If swallowed, wash mouth out repeatedly with water provided person is conscious. If inhaled remove patient to fresh air and administer approved oxygen supply if breathing is difficult. If feeling unwell seek medical attention.</p>			
SECTION 9—PREPARATION OF MSDS			
PREPARED BY (GROUP, DEPT, ETC.)	PHONE NUMBER	DATE	
Technical Department Dalynn Biologicals Inc.	(403) 291-0067	2014 October	