

# MATERIAL SAFETY DATA SHEET

SECTION 1--PRODUCT IDENTIFICATION AND USE				
PRODUCT IDENTIFIER > <b>CCF Supplement</b>			CATALOGUE NUMBER: <b>LC60</b>	
MANUFACTURER'S NAME <b>Dalynn Biologicals Inc.</b>		SUPPLIER'S NAME <b>Dalynn Biologicals Inc.</b>		
STREET ADDRESS <b>3253 - 34 Avenue N.E.</b>		STREET ADDRESS <b>3253 - 34 Avenue N.E.</b>		
CITY <b>Calgary</b>	PROVINCE <b>Alberta</b>	CITY <b>Calgary</b>	PROVINCE <b>Alberta</b>	
POSTAL CODE <b>T1Y 6X2</b>	CHEMICAL EMERGENCY ONLY: <b>1-613-996-6666</b>		POSTAL CODE <b>T1Y 6X2</b>	CHEMICAL EMERGENCY ONLY: <b>1-613-996-6666</b>
SECTION 2--HAZARDOUS INGREDIENTS				
HAZARDOUS INGREDIENTS	%	CAS NUMBER	LD <sub>50</sub> OF INGREDIENT (SPECIFY SPECIES AND ROUTE)	LC <sub>50</sub> OF INGREDIENT (SPECIFY INGREDIENT)
<b>D-Cycloserine</b>	<b>97</b>	<b>68-41-7</b>	<b>Oral - Mouse 5,290 mg/kg</b>	<b>Not applicable</b>
<b>Cefoxitin</b>	<b>3</b>	<b>33564-30-6</b>	<b>Not available</b>	<b>Not applicable</b>
SECTION 3--PHYSICAL DATA				
PHYSICAL STATE <b>Solid</b>	ODOUR AND APPEARANCE <b>White or off-white crystalline powder</b>			ODOUR THRESHOLD (ppm) <b>Not available</b>
VAPOUR PRESSURE (mmHg) <b>Not available</b>	VAPOUR DENSITY (AIR=1) <b>Not available</b>	EVAPORATION RATE <b>Not available</b>	BOILING POINT (°F) <b>Not available</b>	FREEZING POINT (°F) <b>Not available</b>
pH <b>Not available</b>	SPECIFIC GRAVITY <b>Not available</b>	COEFF. WATER/OIL DIST. <b>Not available</b>		
SECTION 4--FIRE AND EXPLOSION DATA				
FLAMMABLE YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> IF YES, UNDER WHICH CONDITIONS? > <b>Exposure to open flame</b>				
MEANS OF EXTINCTION <b>Carbon dioxide, dry chemical powder, alcohol foam, or water spray.</b>				
FLASHPOINT (°C) AND METHOD <b>Not applicable</b>		UPPER FLAMMABLE LIMIT (% BY VOLUME) <b>Not applicable</b>	LOWER FLAMMABLE LIMIT (% BY VOLUME) <b>Not applicable</b>	
AUTOIGNITION TEMPERATURE (°C) <b>Not applicable</b>		HAZARDOUS COMBUSTION PRODUCTS <b>Carbon monoxide, carbon dioxide, nitrogen oxides</b>		
EXPLOSION DATA >	SENSITIVITY TO IMPACT <b>No</b>		SENSITIVITY TO STATIC DISCHARGE <b>No</b>	
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? > <b>Strong oxidizing agents</b>				
REACTIVITY, AND UNDER WHAT CONDITIONS <b>Not available</b>				
HAZARDOUS DECOMPOSITION PRODUCTS <b>Carbon monoxide, carbon dioxide, nitrogen oxides, ammonia</b>				

PRODUCT <b>CCF Supplement</b>	
IDENTIFIER >	
<b>SECTION 6—TOXICOLOGICAL PROPERTIES</b>	
ROUTE OF ENTRY	
SKIN CONTACT [X]	SKIN ABSORPTION [X]      EYE CONTACT [X]      INHALATION [X]      INGESTION [X]
EFFECTS OF ACUTE EXPOSURE TO PRODUCT	
<p>The main constituent of concern is cefoxitin, a cephalosporin antibiotic that can cause hypersensitivity reactions in a low percentage of the population that are allergic to this class of drugs. Given the low amount of cefoxitin (4-mg) per vial limited health effects are expected from exposure to this product for normal, non-allergic individuals.</p> <p>May cause sensitization by inhalation or skin contact. This product contains a cephalosporin, which may cause skin irritation and allergic skin reaction in sensitive individuals. Other skin effects may include erythema, moderate edema or rash.</p> <p>Inhalation or ingestion may cause bronchial sensitization and may cause bronchial spasms. Hypersensitivity reactions may include acute bronchospasm, hives, deep dermal wheals, running nose and blurred vision. Other effects from ingestion include dizziness, headache and vomiting.</p>	
EFFECTS OF CHRONIC EXPOSURE TO PRODUCT	
The chronic toxicological effects of exposure to this product have not been thoroughly investigated.	
EXPOSURE LIMITS	IRRITANCY OF PRODUCT
Not available	Yes
TERATOGENICITY	REPRODUCTIVE TOXICITY
Not available	Not available
SENSITISATION TO PRODUCT	CARCINOGENICITY
Yes	Not available
MUTAGENICITY	SYNERGISTIC PRODUCTS
Not available	Not available
<b>SECTION 7—PREVENTIVE MEASURES</b>	
PERSONAL PROTECTIVE EQUIPMENT:	
Wear appropriate protective clothing: Chemical resistant gloves, safety goggles, lab coat or other appropriate clothing that covers arms and other open body parts. Allergic individuals should avoid working with this product or should do so by using a self-contained breathing apparatus.	
ENGINEERING CONTROLS (SPECIFY, EG, VENTILATION, ENCLOSED PROCESS)	
Use in area with adequate ventilation.	
LEAK AND SPILL PROCEDURE	
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.	
WASTE DISPOSAL	
According to local, provincial and federal regulations.	
HANDLING PROCEDURES AND EQUIPMENT	
Avoid direct contact. Wash thoroughly after handling.	
STORAGE REQUIREMENTS	
Keep at refrigerated temperatures.	
SPECIAL SHIPPING INFORMATION	
None.	
<b>SECTION 8—FIRST AID MEASURES</b>	
<p>In case of contact with eyes, rinse with copious amounts of water for at least 15 minutes.</p> <p>In case of contact with skin, wash with copious amounts of water for at least 15 minutes. Remove contaminated clothing.</p> <p>If swallowed, wash mouth out repeatedly with water provided person is conscious.</p> <p>If inhaled remove patient to fresh air and administer approved oxygen supply if breathing is difficult.</p> <p>Seek medical attention.</p>	
<b>SECTION 9—PREPARATION OF MSDS</b>	
PREPARED BY (GROUP, DEPT, ETC.)	PHONE NUMBER
Technical Department Dalynn Biologicals Inc.	(403) 291-0067
	DATE
	2014 October