## **MATERIAL SAFETY DATA SHEET**

			SEC	TION 1PRODUCT ID	ENTIFICATION A	ND USE				
PRODUCT IDENTIFIER > ETHYL ALCOHOL (70%)						CATALOGUE NUMBER:  BE80				
MANUFACTURER'S NAME				SUPPLIER'S NAME						
Dalynn Biologicals Inc.				Dalynn Biologicals Inc.						
STREET ADDRESS					STREET ADDRESS					
3253 – 34 Avenue N.E.				3253 – 34 Av	enue N.E.					
CITY						PROVINCE				
Calgary Alberta					Calgary			Alberta		
			EMERGENCY	ONLY:	POSTAL CODE			CHEMICAL EMERGENCY ONLY: 1-613-996-6666		
T1Y 6X2 <b>1-613-9</b>								1-613-	996-6666	
				SECTION 2—HAZARD	OOUS INGREDIE	NTS				
HAZARDOUS INGREDIENTS			%	CAS NUMBER	LD∞ OF INGREDIENT (SPECIFY SPECIES AND ROUTE)			LC∞ OF INGREDIENT (SPECIFY INGREDIENT)		
Ethanol			70.0	64-17-5	Oral – Hmn 1,400 mg/kg			Not available		
Methanol			~3.0	67-56-1	Oral - Rat 5,628 mg/kg			Rat - 6,400 ppm/4h		
Ethyl acetate			<1.0	141-78-6	Oral – Rat 11.3 ml/kg			Not available		
				SECTION 3—PH	IYSICAL DATA					
PHYSICAL STATE		D APPEARA							ODOUR THRESHOLD (ppm)	
Liquid Clear, colorless				h strong, sweet a	omatic scent			Not available		
VAPOUR PRESSURE (mmHg)		ENSITY (AIR	=1)	EVAPORATION RATE		BOILING POINT (°C)			· FREEZING POINT (°C)	
40 1.59				3.3	79.4				Not available	
pH SPECIFIC GRAVITY				COEFF. WATER/OIL	IST.					
Not available 0.79			Not available							
				SECTION 4—FIRE AN	D EXPLOSION D	ATA				
FLAMMABLE										
	UNDER CONDITIONS	;? ► E	xtremely	flammable. Will i	gnite if expos	ed to open fla	ımes or sı	parks.		
MEANS OF EXTINCTION										
Water spray, carbon dioxide	e, dry che	emical p	owder or a	appropriate foam						
			PPER FLAMMA	BLE LIMIT (% BY VOLUME	Ξ)	LOWE			R FLAMMABLE LIMIT (% BY VOLUME)	
57 (cc) 11			9			3.3				
` '			HAZARDOUS COMBUSTION PRODUCTS							
Not available Carbon dioxide, carbon monoxide										
EXPLOSION SENSITIVITY TO IMPACT SENSITIVITY TO STATIC DISCHARGE										
Not available  Not available  Not available										
				SECTION 5REA						
CHEMICAL STABILITY										
	IO, UNDER ICH CONDITIC	> DNS?								
INCOMPATIBILITY WITH OTHER SUBSTA	NCES									
YES [X] NO [] IF SO, WHICH ONES? Strong oxidizing agents, strong acids, aldehydes, halogens										
REACTIVITY, AND UNDER WHAT CONDITIONS										
Not available										
HAZARDOUS DECOMPOSITION PRODUCTS										
Carbon dioxide, carbon mo	noxide									

PRODUCT	ETHYL ALCO	OHOL (70%	<b>6</b> )								
IDENTIFIER >		•	,								
			SECTIO	N 6—TOX	ICOLOGICAL PROPE	RTIES					
ROUTE OF ENTRY											
	SKIN CONTACT	[X]	SKIN ABSORPTION	[X]	EYE CONTACT	[X]	INHALATION	[X]	INGESTION	[X]	
EFFECTS OF ACUTE E	XPOSURE TO PRODU	JCT									

Skin: May cause irritation, drying, and chaffing on contact.

Eye: May cause irritation with redness and pain. May cause permanent damage to the eye.

Inhalation: May cause respiratory tract inflammation, and symptoms may include headache, nausea, dizziness, weakness, coughing, incoordination, and CNS depression.

Ingestion: Causes GI disturbances, nausea, and vomiting. Possible kidney damage. Alcohol swallowed in sufficient quantity can cause blindness and death.

EFFECTS OF CHRONIC EXPOSURE TO PRODUCT

Skin: Defatting dermatitis with prolonged use.

Eye: Repeated or prolonged contact may result in conjunctivitis and permanent damage to the eye.

Inhalation & Ingestion: Repeated and chronic exposure may result in damage to the GI tract, kidney, liver, and cardiovascular system.

Not available	Not available	Not available	Not available				
TERATOGENICITY	REPRODUCTIVE TOXICITY	MUTAGENICITY	SYNERGISTIC PRODUCTS				
Not available	Yes	Not available	Not available				
EXPOSURE LIMITS	IRRITANCY OF PRODUCT	SENSITISATION TO PRODUCT	CARCINOGENICITY				
initiation a ingostion reposite and only room in acting to the or tract, many, iron, and our allowance of the							

## **SECTION 7--PREVENTIVE MEASURES**

PERSONAL PROTECTIVE EQUIPMENT:

Wear appropriate protective clothing: Appropriate gloves, safety goggles, lab coat or appropriate clothing.

ENGINEERING CONTROLS (SPECIFY, EG, VENTILATION, ENCLOSED PROCESS)

Use in area with adequate ventilation or in chemical fume hood.

LEAK AND SPILL PROCEDURE

Shut off all sources of ignition. Wear self-contained breathing apparatus, rubber boots and gloves. Absorb with sand or vermiculite and place in closed container 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 room temperature in a cool, dry environment and protect from light where possible. Store in well ventilated area away from ignition sources and oxidizers.

SPECIAL SHIPPING INFORMATION

Double pack in isolated container.

## SECTION 8—FIRST AID MEASURES

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.

If swallowed, wash mouth out with water provided person is conscious. Do not induce vomiting. Have conscious person drink several glasses of milk or water.

If inhaled remove patient to fresh air and administer approved oxygen supply if breathing is difficult.

Seek medical attention.

SECTION 9PREPARATION OF MSDS						
PREPARED BY (GROUP, DEPT, ETC.)	PHONE NUMBER	DATE				
Technical Department Dalynn Biologicals Inc.	(403) 291-0067	2014 October				