

MATERIAL SAFETY DATA SHEET

SECTION 1--PRODUCT IDENTIFICATION AND USE				
PRODUCT IDENTIFIER > Borate Buffered Saline			CATALOGUE NUMBER: BB70	
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)
Boric Acid	1.9	10043-35-3	Oral - Rat - 2,660 mg/kg Scu - Rat - 1,400 mg/kg	Not available
Sodium Borate	0.3	1303-96-4	IV - Mouse - 1,320 mg/kg	Not available
Sodium Chloride	0.4	7647-14-5	None	None
Water	97.4	7732-18-5	None	None
SECTION 3--PHYSICAL DATA				
PHYSICAL STATE Liquid	ODOUR AND APPEARANCE Clear, colorless liquid			ODOUR THRESHOLD (ppm) Not available
VAPOUR PRESSURE (mmHg) Not available	VAPOUR DENSITY (AIR=1) Not Available	EVAPORATION RATE Not available	BOILING POINT (°C) Not available	FREEZING POINT (°C) Not available
PH 5.2	SPECIFIC GRAVITY Not available	COEFF. WATER/OIL DIST. Not available		
SECTION 4--FIRE AND EXPLOSION DATA				
FLAMMABLE YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> IF YES, UNDER WHICH CONDITIONS? > Non-flammable liquid				
MEANS OF EXTINCTION Carbon dioxide, dry chemical powder, alcohol or polymer foam. Water spray, however it may cause frothing.				
FLASHPOINT (°C) AND METHOD Not applicable		UPPER FLAMMABLE LIMIT (% BY VOLUME) Not applicable	LOWER FLAMMABLE LIMIT (% BY VOLUME) Not applicable	
AUTOIGNITION TEMPERATURE (°C) Not applicable		HAZARDOUS COMBUSTION PRODUCTS Oxides of carbon		
EXPLOSION DATA >	SENSITIVITY TO IMPACT Not applicable		SENSITIVITY TO STATIC DISCHARGE Not applicable	
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? > Potassium metal, strong bases				
REACTIVITY, AND UNDER WHAT CONDITIONS Not available				
HAZARDOUS DECOMPOSITION PRODUCTS Oxides				

PRODUCT IDENTIFIER >		Borate Buffered Saline	
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>May cause irritation to eyes or skin on contact. Symptoms include redness, itching, and pain Ingestion may cause nausea, vomiting, headaches, dizziness, and GI irritation. Ingestion in large amounts may be fatal. Estimated lethal dose for boric acid is 15 to 20 grams.</p>			
EFFECTS OF CHRONIC EXPOSURE TO PRODUCT			
<p>Prolonged or repeated ingestion or skin absorption may cause anorexia, weight loss, vomiting, mild diarrhea, skin rash, convulsions, and anemia. The chronic toxicity of this product has not been fully investigated.</p>			
EXPOSURE LIMITS	IRRITANCY OF PRODUCT	SENSITISATION TO PRODUCT	CARCINOGENICITY
Not available	Possible	Not available	No
TERATOGENICITY	REPRODUCTIVE TOXICITY	MUTAGENICITY	SYNERGISTIC PRODUCTS
No	No	No	Not available
SECTION 7--PREVENTIVE MEASURES			
PERSONAL PROTECTIVE EQUIPMENT:			
Wear appropriate protective clothing including lab coat, gloves, and safety glasses.			
ENGINEERING CONTROLS (SPECIFY, EG, VENTILATION, ENCLOSED PROCESS)			
None needed.			
LEAK AND SPILL PROCEDURE			
Take up with an absorbent and containerize appropriately.			
WASTE DISPOSAL			
According to local, provincial and federal regulations.			
HANDLING PROCEDURES AND EQUIPMENT			
Avoid direct and prolonged contact. Wash thoroughly after handling.			
STORAGE REQUIREMENTS			
Store as indicated.			
SPECIAL SHIPPING INFORMATION			
None.			
SECTION 8--FIRST AID MEASURES			
<p>In case of contact with eyes, rinse immediately with plenty of water for at least 15 minutes. In case of contact with skin, wash with soap and plenty of water. If inhaled, remove patient to fresh air and administer oxygen if breathing is difficult. If swallowed, do not induce vomiting, guard against aspiration into lungs. In all cases 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	