

MATERIAL SAFETY DATA SHEET

SECTION 1--PRODUCT IDENTIFICATION AND USE				
PRODUCT IDENTIFIER > BUFFERED FORMALIN			CATALOGUE NUMBER: BF65	
MANUFACTURER'S NAME Dalynn Biologicals Inc.		SUPPLIER'S NAME Dalynn Biologicals Inc.		
STREET ADDRESS 3253 - 34 Ave N.E.		STREET ADDRESS 3253 - 34 Ave 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)
Formaldehyde	10.0	50-00-0	Oral-Mus 42 mg/kg	Inh-Rat 590 mg/kg
Methanol	1.5	64-19-7	Oral-Rat 3310 mg/kg	Inh-Rat 16000 ppm/4h
Water	~90	7732-18-5	None	None
SECTION 3--PHYSICAL DATA				
PHYSICAL STATE Liquid	ODOUR AND APPEARANCE Pungent odor; colourless 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 4.5	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? > Product contains mostly water				
MEANS OF EXTINCTION Dry chemical, carbon dioxide, 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 dioxide, carbon monoxide		
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? > Oxidizers, isocyanates, phenol, anhydrides, hydrochloric acid, perchloric acid, nitromethane, aniline, peroxyformic acid				
REACTIVITY, AND UNDER WHAT CONDITIONS Not available				
HAZARDOUS DECOMPOSITION PRODUCTS Carbon monoxide, carbon dioxide, formic acid				

PRODUCT		BUFFERED FORMALIN	
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>Skin: May cause irritation on contact.</p> <p>Eye: May cause irritation with redness and pain. May cause permanent damage to the eye.</p> <p>Inhalation: May be toxic if inhaled in quantity. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. Causes respiratory tract irritation.</p> <p>Ingestion: May be toxic if ingested in quantity. Product contains mostly water but the presence of formaldehyde and methanol still makes this solution poisonous.</p>			
EFFECTS OF CHRONIC EXPOSURE TO PRODUCT			
<p>Respiratory damage upon prolonged exposure to formaldehyde. Formaldehyde is a potential carcinogen. Given the low concentration of formaldehyde in this product the danger associated with contact is minimized, but prolonged and direct contact is not recommended.</p>			
EXPOSURE LIMITS	IRRITANCY OF PRODUCT	SENSITISATION TO PRODUCT	CARCINOGENICITY
Not available	Yes	Possible	Possible
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; rubber gloves, safety glasses, and 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 or in chemical fume hood.</p>			
LEAK AND SPILL PROCEDURE			
<p>Take up with an absorbent and containerize appropriately.</p>			
WASTE DISPOSAL			
<p>According to local, provincial and federal regulations</p>			
HANDLING PROCEDURES AND EQUIPMENT			
<p>Avoid direct contact. Wash thoroughly after handling.</p>			
STORAGE REQUIREMENTS			
<p>Store at room temperature</p>			
SPECIAL SHIPPING INFORMATION			
<p>None</p>			
SECTION 8--FIRST AID MEASURES			
<p>In case of contact with eyes, rinse immediately with copious amounts of water for a minimum of 15 minutes.</p> <p>In case of contact with skin, wash with soap and plenty of water.</p> <p>If swallowed, wash mouth out with water. Do not induce vomiting. Dilute, inactivate or absorb the ingredients by giving milk or water.</p> <p>Never give anything by mouth to an unconscious person.</p> <p>In all the above instances seek medical attention after.</p>			
SECTION 9--PREPARATION OF MSDS			
PREPARED BY (GROUP, DEPT, ETC.)	PHONE NUMBER	DATE	
Technical Department Dalynn Biologicals Inc.	(403) 291-0067	2014 October	