

MATERIAL SAFETY DATA SHEET

SECTION 1—PRODUCT IDENTIFICATION AND USE				
PRODUCT IDENTIFIER > METHYL RED REAGENT			CATALOGUE NUMBER: RM65	
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)
Methyl Red	0.02	493-52-7	Not Available	Not Available
Ethanol	60.0	64-17-5	Oral – Hmn 1,400 mg/kg	Not Available
SECTION 3—PHYSICAL DATA				
PHYSICAL STATE Liquid	ODOUR AND APPEARANCE Reddish-orange solution with no odor			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 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? > Will ignite if exposed to ignition source or open flame				
MEANS OF EXTINCTION Water spray, carbon dioxide, dry chemical powder or appropriate foam				
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		
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, bases, strong acids, aldehydes, silver salts				
REACTIVITY, AND UNDER WHAT CONDITIONS Not available				
HAZARDOUS DECOMPOSITION PRODUCTS Carbon monoxide and carbon dioxide				

PRODUCT		METHYL RED REAGENT	
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>Eye: causes irritation on contact. Symptoms may include redness, watering, and itching.</p> <p>Skin: May cause irritation on prolonged contact.</p> <p>Inhalation: May cause respiratory tract irritation or inflammation. Symptoms may include headache, nausea, and dizziness.</p> <p>Ingestion: This product is poisonous and may cause damage to the central nervous system and internal organs. Due to the high concentration of ethanol in the product; this product can cause blindness or death if swallowed in sufficient quantity.</p>			
EFFECTS OF CHRONIC EXPOSURE TO PRODUCT			
<p>Eye: Repeated or prolonged contact may result in conjunctivitis and permanent damage to the eye.</p> <p>Inhalation & Ingestion: Repeated and chronic exposure may result in damage to the GI tract, kidney, liver, and cardiovascular system.</p> <p>To the best our knowledge, the chronic toxicity of this product has not been fully investigated.</p>			
EXPOSURE LIMITS	IRRITANCY OF PRODUCT	SENSITISATION TO PRODUCT	CARCINOGENICITY
Not available	Yes	Not available	No
TERATOGENICITY	REPRODUCTIVE TOXICITY	MUTAGENICITY	SYNERGISTIC PRODUCTS
Not available	Not available	No	Not available
SECTION 7--PREVENTIVE MEASURES			
PERSONAL PROTECTIVE EQUIPMENT:			
Wear appropriate protective clothing: safety goggles, apron or appropriate laboratory clothing.			
ENGINEERING CONTROLS (SPECIFY, EG, VENTILATION, ENCLOSED PROCESS)			
Use in area with adequate ventilation or in chemical fume hood.			
LEAK AND SPILL PROCEDURE			
Take up with an absorbent and containerize appropriately. 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 temperature.			
SPECIAL SHIPPING INFORMATION			
Double pack in isolated container.			
SECTION 8--FIRST AID MEASURES			
<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.</p> <p>If swallowed, wash mouth out with water provided person is conscious. Have conscious person drink several glasses of water or milk and seek medical attention.</p> <p>If inhaled remove patient to fresh air and administer approved oxygen supply if breathing is difficult.</p> <p>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 January	