

MATERIAL SAFETY DATA SHEET

SECTION 1—PRODUCT IDENTIFICATION AND USE				
PRODUCT IDENTIFIER ➤ CATALASE REAGENT			CATALOGUE NUMBER: RC35	
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)
Hydrogen peroxide	3.0	7722-84-1	Oral – Rbt 820 mg/kg	Inh – Mouse 2 g/m3/4h
Water	97.0	7732-18-5	Not applicable	Not applicable
SECTION 3—PHYSICAL DATA				
PHYSICAL STATE Liquid	ODOUR AND APPEARANCE Clear, colorless, and odorless			ODOUR THRESHOLD (ppm) Not available
VAPOUR PRESSURE (mmHg) Not available	VAPOUR DENSITY (AIR=1) Not available	EVAPORATION RATE Not available	BOILING POINT (°C) 100	FREEZING POINT (°C) 0
pH Not available	SPECIFIC GRAVITY 1.0	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? ➤ Minimal fire hazard as main ingredient is water				
MEANS OF EXTINCTION Water spray, carbon dioxide, dry chemical powder or appropriate foam				
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 Carbon dioxide, carbon monoxide		
EXPLOSION DATA ➤ 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? ➤ Strong reducing agents, alkalis, and many metals.				
REACTIVITY, AND UNDER WHAT CONDITIONS Not available				
HAZARDOUS DECOMPOSITION PRODUCTS None, decomposes to water and oxygen				

PRODUCT IDENTIFIER >		CATALASE REAGENT	
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: No adverse effects expected on intact skin, but may cause minor irritation.</p> <p>Eye: May cause irritation on contact with redness and pain.</p> <p>Inhalation: No adverse effects expected.</p> <p>Ingestion: No adverse effects expected although large oral doses may cause irritation and blistering to the mouth, throat, and abdomen accompanied by abdominal pain, vomiting and diarrhea.</p>			
EFFECTS OF CHRONIC EXPOSURE TO PRODUCT			
To the best of our knowledge the chronic toxicological effects of this product have not been thoroughly investigated.			
EXPOSURE LIMITS	IRRITANCY OF PRODUCT	SENSITISATION TO PRODUCT	CARCINOGENICITY
Not available	Yes	No	Not available
TERATOGENICITY	REPRODUCTIVE TOXICITY	MUTAGENICITY	SYNERGISTIC PRODUCTS
No	No	No	Not available
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.			
LEAK AND SPILL PROCEDURE			
Wearing gloves and eye protection, absorb with paper towel and discard with regular waste. 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.			
SPECIAL SHIPPING INFORMATION			
None.			
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 water. Safe for skin contact.</p> <p>If swallowed, wash mouth out with water provided person is conscious. Give several glasses of water to dilute the swallowed reagent.</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	