

MATERIAL SAFETY DATA SHEET

SECTION 1—PRODUCT IDENTIFICATION AND USE				
PRODUCT IDENTIFIER > INDOLE REAGENT			CATALOGUE NUMBER: RI40	
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)
p-Dimethylaminocinnamaldehyde	1.0	6203-18-5	Not available	Not available
Hydrochloric acid	3.0	7647-01-0	Inh – Rat 900 mg/kg	Inh – Rat 3,124 ppm/4H
SECTION 3—PHYSICAL DATA				
PHYSICAL STATE Liquid	ODOUR AND APPEARANCE Yellow 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 Not available	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? > This product contains mostly water				
MEANS OF EXTINCTION Water spray, carbon dioxide				
FLASHPOINT (°C) AND METHOD Not applicable		UPPER FLAMMABLE LIMIT (% BY VOLUME) Not applicable		LOWER FLAMMABLE LIMIT (% BY VOLUME) Not applicable
AUTOIGNITION TEMPERATURE (°C) Not available		HAZARDOUS COMBUSTION PRODUCTS Carbon dioxide, carbon monoxide, hydrogen chloride gas		
EXPLOSION DATA > Not available			SENSITIVITY TO STATIC DISCHARGE Not available	
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, strong bases, metal oxides, bromides, fluorides, cyanides, sulfides, sulfuric acid, nitric acid				
REACTIVITY, AND UNDER WHAT CONDITIONS Not available				
HAZARDOUS DECOMPOSITION PRODUCTS Not available				

PRODUCT IDENTIFIER >		INDOLE 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>The acidic nature of the product causes burns on contact with skin, eyes, or organs of exposure. Severity of burns depends on amount and duration. Irritating to skin, eyes, mucous membranes, and respiratory tract upon exposure to liquid or mist.</p> <p>Harmful if Ingested.</p>			
EFFECTS OF CHRONIC EXPOSURE TO PRODUCT			
<p>The chronic toxicological effects of exposure to this product have not been thoroughly investigated.</p>			
EXPOSURE LIMITS	IRRITANCY OF PRODUCT	SENSITISATION TO PRODUCT	CARCINOGENICITY
Not available	Yes	Not available	Not available
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: Gloves, safety goggles, lab coat or appropriate clothing.</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>Cover with soda ash or lime and containerize appropriately. Ventilate area and wash spill site after material pickup is complete.</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>Keep at refrigerated temperature.</p>			
SPECIAL SHIPPING INFORMATION			
<p>None.</p>			
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.</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	