

MATERIAL SAFETY DATA SHEET

SECTION 1--PRODUCT IDENTIFICATION AND USE				
PRODUCT IDENTIFIER NITRATE DISKS			CATALOGUE NUMBER: DN45 / DLDN45	
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)
Potassium nitrate	100	7757-79-1	Oral – Rbt 1,901 mg/kg	Not available
SECTION 3—PHYSICAL DATA				
PHYSICAL STATE Solid	ODOUR AND APPEARANCE Odorless, white disk labeled NIT, white crystals maybe visible			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? Open flame				
MEANS OF EXTINCTION Water spray, CO₂, 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 Toxic fumes of carbon monoxide, carbon dioxide, and nitrogen oxides			
EXPLOSION DATA No	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? Strong reducing agents, finely powdered metals, strong acids				
REACTIVITY, AND UNDER WHAT CONDITIONS Not available				
HAZARDOUS DECOMPOSITION PRODUCTS Carbon monoxide, carbon dioxide, nitrogen oxides				

PRODUCT NITRATE DISKS			
IDENTIFIER >			
SECTION 6--TOXICOLOGICAL PROPERTIES			
ROUTE OF ENTRY			
SKIN CONTACT <input checked="" type="checkbox"/> SKIN ABSORPTION <input checked="" type="checkbox"/> EYE CONTACT <input checked="" type="checkbox"/> INHALATION <input type="checkbox"/> INGESTION <input checked="" type="checkbox"/>			
EFFECTS OF ACUTE EXPOSURE TO PRODUCT			
Minimal risk: potassium nitrate is a known irritant. May cause skin or eye irritation on contact. Maybe harmful if swallowed, but given the minute amount contained on the disk little or no side effects are expected. Ingestion of potassium nitrate in large quantities may cause violent gastroenteritis.			
EFFECTS OF CHRONIC EXPOSURE TO PRODUCT			
The chronic toxicological properties of this product have not been thoroughly investigated.			
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:			
Wear appropriate protective clothing: Safety glasses, gloves, and laboratory coat.			
ENGINEERING CONTROLS (SPECIFY, EG, VENTILATION, ENCLOSED PROCESS)			
None.			
LEAK AND SPILL PROCEDURE			
Wearing gloves, collect disks and containerize appropriately. Discard with regular waste.			
WASTE DISPOSAL			
Inoculated disks should be sterilized or autoclaved prior to disposal (30 minutes at 121°C). Dispose of with regular waste.			
HANDLING PROCEDURES AND EQUIPMENT			
Avoid direct contact. Wash thoroughly after handling.			
STORAGE REQUIREMENTS			
Refrigerate upon arrival.			
SPECIAL SHIPPING INFORMATION			
None.			
SECTION 8—FIRST AID MEASURES			
In case of contact with eyes, rinse immediately with copious amounts of water for at least 15 minutes. In case of contact with skin, wash with soap and plenty of water. If swallowed, wash mouth out with water providing person is conscious and seek medical attention. Seek medical attention if feeling ill.			
SECTION 9--PREPARATION OF MSDS			
PREPARED BY (GROUP, DEPT, ETC.)	PHONE NUMBER	DATE	
Technical Department Dalynn Biologicals Inc.	(403) 291-0067	2014 October	