

MATERIAL SAFETY DATA SHEET

SECTION 1--PRODUCT IDENTIFICATION AND USE				
PRODUCT IDENTIFIER > LAP DISKS			CATALOGUE NUMBER: DL10	
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)
L-Leucine β-Naphthylamide Hydrochloride	100	91-59-8	Not available	Not available
SECTION 3--PHYSICAL DATA				
PHYSICAL STATE Solid	ODOUR AND APPEARANCE White paper disk 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? > Open flame				
MEANS OF EXTINCTION 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, nitrogen oxides, hydrogen chloride gas		
EXPLOSION DATA >	SENSITIVITY TO IMPACT 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 since upon hydrolysis this compound produces beta-naphthylamide				
REACTIVITY, AND UNDER WHAT CONDITIONS Not available				
HAZARDOUS DECOMPOSITION PRODUCTS Toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides, and hydrogen chloride gas				

PRODUCT		LAP DISKS	
IDENTIFIER >			
SECTION 6—TOXICOLOGICAL PROPERTIES			
ROUTE OF ENTRY			
SKIN CONTACT	[X]	SKIN ABSORPTION	[X]
EYE CONTACT	[X]	INHALATION	[]
INGESTION	[X]		
EFFECTS OF ACUTE EXPOSURE TO PRODUCT			
May cause eye and skin irritation on contact. Maybe irritating to mucous membranes if ingested.			
EFFECTS OF CHRONIC EXPOSURE TO PRODUCT			
The active ingredient, L-leucine β-naphthylamide hydrochloride, is a possible carcinogen given that β-naphthylamide is a known carcinogen therefore avoid direct contact during use. The chronic toxicological properties of this product have not been thoroughly investigated.			
EXPOSURE LIMITS	IRRITANCY OF PRODUCT	SENSITISATION TO PRODUCT	CARCINOGENICITY
Not available	Not available	Not available	Possible
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: Lab coat, gloves, and safety glasses			
ENGINEERING CONTROLS (SPECIFY, EG, VENTILATION, ENCLOSED PROCESS)			
Local exhaust			
LEAK AND SPILL PROCEDURE			
Pick up disks wearing gloves and containerize appropriately. Discard with regular waste.			
WASTE DISPOSAL			
Inoculated disks should be autoclaved at 121°C for 30 minutes prior to disposal. Unused disks can be discarded with regular waste.			
HANDLING PROCEDURES AND EQUIPMENT			
Avoid direct contact. Wash thoroughly after handling.			
STORAGE REQUIREMENTS			
Store frozen.			
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.			
Seek medical attention.			
SECTION 9—PREPARATION OF MSDS			
PREPARED BY (GROUP, DEPT, ETC.)	PHONE NUMBER	DATE	
Technical Department Dalynn Biologicals Inc.	(403) 291-0067	2014 October	