

MATERIAL SAFETY DATA SHEET

SECTION 1--PRODUCT IDENTIFICATION AND USE				
PRODUCT IDENTIFIER > GRAM SAFRANIN O STAIN			CATALOGUE NUMBER: SG54	
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)
Ethanol	10.0	64-17-5	Oral-Hmn 1 400 mg/kg	Not Available
Safranin O	0.25	477-76-6	Inv-Rat 28 740 µg/kg	Not available
SECTION 3--PHYSICAL DATA				
PHYSICAL STATE Liquid	ODOUR AND APPEARANCE Odorless, red 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 checked="" type="checkbox"/> NO <input type="checkbox"/> IF YES, UNDER WHICH CONDITIONS? > Minimal fire hazard (contains mostly water)				
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? > Strong oxidizing agents				
REACTIVITY, AND UNDER WHAT CONDITIONS Not available				
HAZARDOUS DECOMPOSITION PRODUCTS Carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen chloride gas				

PRODUCT		GRAM SAFRANIN O STAIN	
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>Irritating to eyes, respiratory system, and skin upon contact. Stains skin on contact. This product contains denatured alcohol that is not suitable for human consumption. Alcohol swallowed in sufficient quantity can result in blindness or death. Symptoms of exposure include headache, nausea, dizziness, weakness, coughing, incoordination, and CNS depression.</p>			
EFFECTS OF CHRONIC EXPOSURE TO PRODUCT			
<p>To the best of our knowledge the toxicological properties 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: Lab coat, safety glasses, and gloves to prevent skin exposure</p>			
ENGINEERING CONTROLS (SPECIFY, EG, VENTILATION, ENCLOSED PROCESS)			
<p>Local exhaust</p>			
LEAK AND SPILL PROCEDURE			
<p>Wearing rubber gloves wipe the area and containerize appropriately. Ventilate area and wash spill site after material clean up 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>Store at room temperature, tightly closed.</p>			
SPECIAL SHIPPING INFORMATION			
<p>None.</p>			
SECTION 8—FIRST AID MEASURES			
<p>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 inhaled remove patient to fresh air and administer approved oxygen supply if breathing is difficult. If swallowed, wash mouth out with water provided person is conscious. Do not induce vomiting and 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 October	