

MATERIAL SAFETY DATA SHEET

SECTION 1—PRODUCT IDENTIFICATION AND USE				
PRODUCT IDENTIFIER >	AURAMINE COUNTERSTAIN (POTASSIUM PERMANGANATE)			CATALOGUE NUMBER: SA87
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 permanganate	0.5	7722-64-7	Oral – Rat 1,090 mg/kg	Not available
SECTION 3—PHYSICAL DATA				
PHYSICAL STATE Liquid	ODOUR AND APPEARANCE Purplish solution 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 type="checkbox"/> NO <input checked="" type="checkbox"/> IF YES, UNDER WHICH CONDITIONS? > Minimal fire hazard as the major ingredient in this product is water				
MEANS OF EXTINCTION Water spray, carbon dioxide, dry chemical powder, or appropriate foam				
FLASHPOINT (°F) 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 dioxide, carbon monoxide		
EXPLOSION DATA > 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? > Oxidizing agents, formaldehyde, peroxides				
REACTIVITY, AND UNDER WHAT CONDITIONS Not available				
HAZARDOUS DECOMPOSITION PRODUCTS Toxic fumes of carbon monoxide, carbon dioxide				

PRODUCT IDENTIFIER AURAMINE COUNTERSTAIN (POTASSIUM PERMANGANATE) >			
SECTION 8--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 checked="" type="checkbox"/> INGESTION <input checked="" type="checkbox"/>			
EFFECTS OF ACUTE EXPOSURE TO PRODUCT May cause skin and eye irritation on contact. May cause burns depending on quantity and duration of exposure. May be irritating to mucous membranes and upper respiratory tract if inhaled. Symptoms may include coughing, burning sensation and edema. Harmful if Ingested. Ulceration and bleeding and other GI disturbances may occur. All toxic effects are associated with exposure to a compound containing manganese. Given the small amount of manganese present in this product no toxic effects are expected unless the product is ingested in large amounts.			
EFFECTS OF CHRONIC EXPOSURE TO PRODUCT May cause severe irritation of skin on repeated or prolonged contact. May lead to lung irritation and central nervous system disorders. To the best of our knowledge the chronic toxicological effects of this product have not been thoroughly investigated.			
EXPOSURE LIMITS Not available	IRRITANCY OF PRODUCT Yes	SENSITISATION TO PRODUCT Not available	CARCINOGENICITY Not available
TERATOGENICITY Not available	REPRODUCTIVE TOXICITY Not available	MUTAGENICITY Not available	SYNERGISTIC PRODUCTS Not available
SECTION 7--PREVENTIVE MEASURES			
PERSONAL PROTECTIVE EQUIPMENT: Wear appropriate protective clothing! Safety glasses, chemical resistant gloves, and laboratory coat.			
ENGINEERING CONTROLS (SPECIFY, EG, VENTILATION, ENCLOSED PROCESS) Local exhaust or chemical fume hood.			
LEAK AND SPILL PROCEDURE Take up with an absorbent and containerize for proper storage. After pick-up of material is complete wash spill site and ventilate area.			
WASTE DISPOSAL According to local, provincial and federal regulations.			
HANDLING PROCEDURES AND EQUIPMENT Avoid direct or prolonged contact.			
STORAGE REQUIREMENTS Store at room temperature and avoid direct exposure to light.			
SPECIAL SHIPPING INFORMATION None			
SECTION 8--FIRST AID MEASURES			
In case of contact with eyes or skin, immediately flush eyes or skin with copious amounts of water for at least 15 minutes. Remove contaminated clothing and wash before wearing. If inhaled, remove patient to fresh air and administer an approved oxygen supply if breathing is difficult. If ingested, give 2 cups of water provided patient is conscious and seek medical attention.			
SECTION 9--PREPARATION OF MSDS			
PREPARED BY (GROUP, DEPT, ETC.) Technical Department Dalynn Biologicals Inc.	PHONE NUMBER (403) 291-0067	DATE 2014 October	