

MATERIAL SAFETY DATA SHEET

SECTION 1—PRODUCT IDENTIFICATION AND USE				
PRODUCT IDENTIFIER > AURAMINE-RHODAMINE DECOLORIZER			CATALOGUE NUMBER: SA93	
MANUFACTURER'S NAME Dalynn Biologicals Inc.		SUPPLIER'S NAME Dalynn Biologicals Inc.		
STREET ADDRESS 3253 – 34 Avenue NE		STREET ADDRESS 3253 – 34 Avenue NE		
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	70.0	64-17-5	Oral – Rat 7,060 mg/kg	Inh – Rat 31,623 ppm/4h
Hydrochloric Acid	0.5	7647-01-0	Oral – Rbt 900 mg/kg	Inh – Rat 3,124 ppm/1h
SECTION 3—PHYSICAL DATA				
PHYSICAL STATE Liquid	ODOUR AND APPEARANCE Clear, colorless liquid with pleasant alcoholic odor			ODOUR THRESHOLD (ppm) Not available
VAPOUR PRESSURE (mmHg) 40 (19°C)*	VAPOUR DENSITY (AIR=1) 1.59*	EVAPORATION RATE 3.3*	BOILING POINT (°C) 79.4*	FREEZING POINT (°C) Not available
pH Not available	SPECIFIC GRAVITY 0.81*	COEFF. WATER/OIL DIST. Not available		*data for pure ethanol
SECTION 4—FIRE AND EXPLOSION DATA				
FLAMMABLE YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> IF YES, UNDER WHICH CONDITIONS? > Extremely flammable avoid exposure to heat, sparks, or flames. Liquid is extremely mobile and vapors can travel distances to an ignition source and flash back.				
MEANS OF EXTINCTION Water spray, carbon dioxide, dry chemical powder, or appropriate foam				
FLASHPOINT (°F) AND METHOD 57 (closed cup)*		UPPER FLAMMABLE LIMIT (% BY VOLUME) 19*		LOWER FLAMMABLE LIMIT (% BY VOLUME) 3.3*
AUTOIGNITION TEMPERATURE (°C) Not available		HAZARDOUS COMBUSTION PRODUCTS Carbon dioxide, carbon monoxide, 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 and strong acids				
REACTIVITY, AND UNDER WHAT CONDITIONS Not available				
HAZARDOUS DECOMPOSITION PRODUCTS Toxic fumes of carbon monoxide, carbon dioxide				

PRODUCT IDENTIFIER AURAMINE-RHODAMINE DECOLORIZER			
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 causes irritation on contact with skin, or eyes. Inhalation may cause dizziness, nausea, and vomiting. Symptoms may include dizziness, faintness, drowsiness, euphoria, nausea, lack of coordination and coma. The ethanol contained in this product has been denatured and is not suitable for consumption. Ingestion of a large amount can be fatal or cause blindness.			
EFFECTS OF CHRONIC EXPOSURE TO PRODUCT May cause severe irritation of skin on repeated or prolonged contact. Chronic exposure via inhalation or ingestion may include progressive liver injury with fibrosis. 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 No
TERATOGENICITY No	REPRODUCTIVE TOXICITY No	MUTAGENICITY No	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 exposure to light or excess heat.			
SPECIAL SHIPPING INFORMATION Double pack in isolated container.			
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. If inhaled, remove patient to fresh air and administer an approved oxygen supply if breathing is difficult. If ingested, do not induce vomiting. If conscious, rinse mouth with water and drink two cups of water to dilute stomach contents. Consult a physician immediately. 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 April	