

# MATERIAL SAFETY DATA SHEET

SECTION 1—PRODUCT IDENTIFICATION AND USE				
PRODUCT IDENTIFIER > <b>ETHYL ACETATE</b>			CATALOGUE NUMBER: <b>BE75</b>	
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	<b>CHEMICAL EMERGENCY ONLY:</b> <b>1-613-996-6666</b>	POSTAL CODE T1Y 6X2	<b>CHEMICAL EMERGENCY ONLY:</b> <b>1-613-996-6666</b>	
SECTION 2—HAZARDOUS INGREDIENTS				
HAZARDOUS INGREDIENTS	%	CAS NUMBER	LD <sub>50</sub> OF INGREDIENT (SPECIFY SPECIES AND ROUTE)	LC <sub>50</sub> OF INGREDIENT (SPECIFY INGREDIENT)
<b>Ethyl acetate</b>	<b>&gt;95</b>	<b>141-78-6</b>	<b>Orl – Rat 5,620 mg/kg</b>	<b>Inh – Mouse 45,000 mg/m3/2h</b>
SECTION 3—PHYSICAL DATA				
PHYSICAL STATE <b>Liquid</b>	ODOUR AND APPEARANCE <b>Clear, colorless liquid with sweet odor</b>			ODOUR THRESHOLD (ppm) <b>Not available</b>
VAPOUR PRESSURE (mmHg) <b>73.0 @ 20°C</b>	VAPOUR DENSITY (AIR=1) <b>3.04</b>	EVAPORATION RATE <b>Not available</b>	BOILING POINT (°C) <b>77</b>	FREEZING POINT (°C) <b>-83.5</b>
PH <b>Not available</b>	SPECIFIC GRAVITY <b>0.902</b>	COEFF. WATER/OIL DIST. <b>Not available</b>		
SECTION 4—FIRE AND EXPLOSION DATA				
FLAMMABLE				
YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> IF YES, UNDER WHICH CONDITIONS? > <b>Flammable. Risk of ignition. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Containers may explode when heated.</b>				
MEANS OF EXTINCTION <b>CO2, dry chemical, dry sand, alcohol-resistant foam. Cool closed containers exposed to fire with water spray.</b>				
FLASHPOINT (°C) AND METHOD <b>-3 (closed cup)</b>		UPPER FLAMMABLE LIMIT (% BY VOLUME) <b>11.5</b>	LOWER FLAMMABLE LIMIT (% BY VOLUME) <b>2.2</b>	
AUTOIGNITION TEMPERATURE (°C) <b>427</b>		HAZARDOUS COMBUSTION PRODUCTS <b>Carbon monoxide, carbon dioxide</b>		
EXPLOSION DATA >		SENSITIVITY TO STATIC DISCHARGE		
<b>SENSITIVITY TO IMPACT</b> <b>Not available</b>		<b>Not Available</b>		
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? > <b>Oxidizing agents</b>				
REACTIVITY, AND UNDER WHAT CONDITIONS <b>Not available</b>				
HAZARDOUS DECOMPOSITION PRODUCTS <b>Carbon dioxide, carbon monoxide</b>				

PRODUCT IDENTIFIER > **ETHYL ACETATE**

**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  
**Eye: May cause irritation to eyes on contact.**  
**Skin: May cause irritation on contact. Symptoms may include redness and swelling.**  
**Ingestion: May be harmful if ingested.**  
**Inhalation: May be harmful if inhaled. May cause irritation to the upper respiratory tract, and cause coughing and discomfort. Inhalation of high concentrations may cause: headache, drowsiness, dizziness, vomiting, narcosis, anemia, and CNS depression.**

EFFECTS OF CHRONIC EXPOSURE TO PRODUCT  
**The chronic toxicological effects of exposure to this product have not been thoroughly investigated.**

EXPOSURE LIMITS <b>Not available</b>	IRRITANCY OF PRODUCT <b>Yes</b>	SENSITISATION TO PRODUCT <b>Not available</b>	CARCINOGENICITY <b>Not available</b>
TERATOGENICITY <b>Not available</b>	REPRODUCTIVE TOXICITY <b>Not available</b>	MUTAGENICITY <b>Not available</b>	SYNERGISTIC PRODUCTS <b>Not available</b>

**SECTION 7—PREVENTIVE MEASURES**

PERSONAL PROTECTIVE EQUIPMENT:  
**Wear appropriate protective clothing: Chemical resistant gloves (0.3-mm butyl rubber), safety goggles, lab coat or other appropriate clothing that covers arms and other open body parts. Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls.**

ENGINEERING CONTROLS (SPECIFY, EG, VENTILATION, ENCLOSED PROCESS)  
**Use only under a chemical fume hood. Use explosion-proof equipment.**

LEAK AND SPILL PROCEDURE  
**Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Ventilate area and wash spill site after material pickup is complete.**

WASTE DISPOSAL  
**According to local, provincial and federal regulations. Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.**

HANDLING PROCEDURES AND EQUIPMENT  
**Avoid direct contact. Wash thoroughly after handling.**

STORAGE REQUIREMENTS  
**Keep container tightly closed at all times. Keep in flammable storage where possible away from ignition sources.**

SPECIAL SHIPPING INFORMATION  
**UN number: 1173 Class: 3 Packing group: II**

**SECTION 8—FIRST AID MEASURES**

**In case of contact with eyes, rinse with copious amounts of water for at least 15 minutes.**  
**In case of contact with skin, wash with copious amounts of water for at least 15 minutes. Remove contaminated clothing and wash before wearing.**  
**If swallowed, wash mouth out repeatedly with water provided person is conscious.**  
**If inhaled remove patient to fresh air and administer approved oxygen supply if breathing is difficult.**  
**Seek medical attention if feeling unwell.**

**SECTION 9—PREPARATION OF MSDS**

PREPARED BY (GROUP, DEPT, ETC.) Technical Department Dalynn Biologicals Inc.	PHONE NUMBER (403) 291-0067	DATE 2014 October
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