MATERIAL SAFETY DATA SHEET

			SECT	ION 1PRODUCT IDE	ENTIFICATION A	ND USE						
PRODUCT IDENTIFIER > POTASSIUM HYDROXIDE SOLUTION							NUMBER	RP85 / 88 / 89				
MANUFACTURER'S NAME		SUPPLIER'S NAME										
Dalynn Biologicals Inc.						Dalynn Biologicals Inc.						
STREET ADDRESS						STREET ADDRESS						
3253 – 34 Avenue N.E.						3253 – 34 Avenue N.E.						
CITY	PROVINCE						PROVING	OVINCE				
Calgary					Calgary			Alberta				
			EMERGENCY (ONLY:	POSTAL CODE			CHEMICAL EMERGENCY ONLY:				
T1Y 6X2 1-613			96-6666					1-613-996-6666				
			S	ECTION 2—HAZARD	OUS INGREDIEN	NTS						
HAZARDOUS INGREDIENTS			%	CAS NUMBER	ER LD ₅₀ OF INGREDIENT (SPECIFY SPECIES AND ROUTE)			LC₀ OF INGREDIENT (SPECIFY INGREDIENT)				
Potassium hydroxide			10.0 to 40.0	7647-01-0	Oral – Rat 273 mg / kg			Not available				
				SECTION 3—PH	I YSICAL DATA							
PHYSICAL STATE									ODOUR THRESHOLD (ppm)			
Liquid	Colorles	s liquid	d with clean, basic odor						Not available			
VAPOUR PRESSURE (mmHg)	VAPOUR DE	-		-	EVAPORATION RATE BOILING POINT (S				· FREEZING POINT (°F)			
2.6 Not available				Not available		271 - 293			48			
PH SPECIFIC GRAVITY				COEFF. WATER/OIL	ST.							
14.0	1.51 (app	orox)		Not available								
			S	ECTION 4—FIRE AND	EXPLOSION DA	ATA						
FLAMMABLE YES [] NO [X] IF YES,	UNDER	> N	on-flamma	ıble (contains mo	ostly water)							
	CONDITIONS?			(00								
Carbon dioxide, dry chemic	al powder	r, alcoho	ol foam, or	water spray.								
FLASHPOINT (°C) AND METHOD UPPER FLAMMABLE LIMIT (% BY VOL				LE LIMIT (% BY VOLUME	E) LOWER FLAN				MABLE LIMIT (% BY VOLUME)			
Not applicable			ot applical	ole	Not appl			pplica	licable			
AUTOIGNITON TEMPERATURE (°C)			HAZARDOUS COMBUSTION PRODUCTS									
Not applicable Carbon monoxide, carbon dioxide												
EXPLOSION SENSITIVITY TO IMPACT					SENSITIVITY TO STATIC DISCHARGE							
DATA ➤ No					No							
				SECTION 5—REA	CTIVITY DATA							
CHEMICAL STABILITY												
WH.	(] NO [] IF NO, UNDER ➤ WHICH CONDITIONS?											
INCOMPATIBILITY WITH OTHER SUBSTA	NCES											
YES [X] NO [] IFS	Metals, organic materials, peroxides, nitro compounds, acroleine, acetaldehyde, carbides, phosphorus, chloro-organic compounds											
REACTIVITY, AND UNDER WHAT CONDIT	TIONS											
Not available												
HAZARDOUS DECOMPOSITION PRODUC	CTS											
Carbon monoxide, potassiu	ım oxides	, hydrog	gen gas									

PRODUCT	RODUCT POTASSIUM HYDROXIDE SOLUTION											
DENTIFIER ➤ SECTION 6—TOXICOLOGICAL PROPERTIES												
ROUTE OF ENTRY												
	SKIN CONTACT [X]	SKIN ABSORPTION	[X]	EYE CONTACT	[X]	INHALATION	[X]	INGESTION	[X]			
EFFECTS OF ACUTE EXP	POSURE TO PRODUCT											
Solution is extremely basic making it highly corrosive and will result in chemical burns on contact. Irritating to skin, eyes, mucous membranes, and respiratory tract upon exposure to liquid or mist. Eyes – burning sensation, inflammation, redness, watering, and itching. May cause permanent damage to the eye and vision loss. Skin – itching, reddening, and blistering. Inhalation – may result in spasm, inflammation and edema of the larynx and bronchi. Symptoms may include wheezing, coughing, laryngitis, shortness of breath, headache, nausea. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. Ingestion – Toxic if swallowed in sufficient quantity. EFFECTS OF CHRONIC EXPOSURE TO PRODUCT												
The chronic toxicological effects of exposure to this product have not been thoroughly investigated.												
	EXPOSURE LIMITS IRRITANCY OF PRODU			JCT SENSITISATION TO PRODUCT				CARCINOGENICITY				
Not available		Yes		Not available	!		No					
TERAT No	FOGENICITY	REPRODUCTIVE TOXIC	CITY	No	MUTAGENICITY		Not availa	NERGISTIC PRODI Able	JCTS			
			N 7_DDEV	ENTIVE MEASUR	ES		1101414					
Wear appropriate protective clothing: Gloves, safety goggles, lab coat or other appropriate clothing that covers arms and other open body parts. ENGINEERING CONTROLS (SPECIFY, EG, VENTILATION, ENCLOSED PROCESS) Use in area with adequate ventilation or in chemical fume hood. LEAK AND SPILL PROCEDURE Neutralize with dilute acid solution (lemon juice or vinegar) until pH is neutral (6.5-7.5). Mop up neutralized solution. Ventilate area and wash spill site after material pickup is complete. WASTE DISPOSAL According to local, provincial and federal regulations HANDLING PROCEDURES AND EQUIPMENT Avoid direct contact. Wash thoroughly after handling. STORAGE REQUIREMENTS Keep at refrigerated temperatures. Keep container tightly closed at all times. SPECIAL SHIPPING INFORMATION Double pack in isolated container.												
		SECT	TION 8FIRS	T AID MEASURE	S							
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. 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. SECTION 9-PREPARATION OF MSDS												
PREPARED BY (GROUP,	•		PHONE NUMI			DATE						
	echnical Department (403) 291-0067 2014 January alynn Biologicals Inc.											