	E M E F	======================================	=============					
FOR CHEMICAL EMERGE	NCY: SPILL, LEAK, F TREC - DAY or NIG	FIRE, EXPOSURE OF	R ACCIDENT CALL					
Product Name:	AB NAVIGA		EPA Reg. No. 228-378-8959					
SECTION I - GENERAL INFORMATION								
Manufacturer's Name:	APPLIED BIOCH W175 N11163 St Suite 234 Germantown, WI (800) 558-5106	APPLIED BIOCHEMISTS W175 N11163 Stonewood Drive Suite 234 Germantown, WI 53022-4799						
rade Name & Synonyms: AB NAVIGATE hemical Name & Synonyms: 2,4-D: 2,4-DICHLOROPHENOXYACETIC ACID, BUTOXYETHYL ESTER ESTER								
Generic Description: Formula: C ₁₂ H ₁ D.O.T. Proper Shipping Name: U.N. or N.A. Identification #: D.O.T. Hazard Class: D.O.T. Emergency Response Guide: Hazardous Mat'ls ID System Values (HMIS): Health Nat'l Fire Protection Assn. (NFPA 704M): Health		1 Reactivity -						
	SECTION II - HAZARDOUS INGREDIENTS							
Hazardous Component(s)	<u>CAS#</u>	 <u>PEL</u>	<u>TLV</u>					
2,4-Dichlorophenoxyacetate Acid, Butoxyethyl Ester Crystalline Silica	1929-73-3 14808-60-7	10 mg/m ³ 0.1 mg/m ³	10 mg/m ³ 0.1 mg/ ³					
Ingredients listed in this section have been dete be health hazards are listed if they comprise 19 comprise 0.1% or more of the composition. Infe (1).	% or more of the compos	sition. Materials identifie	d as carcinogens are listed if they					
SECTION III - PHYSICAL DATA								
11	% Volati Evapora RANULES WITH MIL	Gravity (water = 1): le (by Volume): tion Rate:(<u>Ether = 1)</u> D PHENOLIC ODOR.	NOT KNOWN NOT DETERMINED < 1					
SECTION IV - FIRE & EXPLOSION DATA								
Flash Point (F): NOT Extinguishing Media: CO ₂ , THIS Special Fire Fighting Procedures: WEAI	PRODUCT IS INVOI R APPROVED SELF REVENT CONTAMIN	Me IICAL OR FOAM TO F VED. CONTAINED BREAT JATION OF WATER S	ethod: FIGHT FIRES IN WHICH HING APPARATUS. DIKE SOURCES.					
SULFUR DIOXIDES AND HYDROCHLORIC ACID.								
SECTION V - REACTIVITY DATA								
Incompatibility (Materials to Avoid): A Hazardous Decomposition Products: T Hazardous Polymerization:		DIZERS. DSITION PRODUCTS IOXIDES AND HYDR	Stable INCLUDE OXIDES OF OCHLORIC ACID. Will Not Occur					

Page 2 of 2								
	SECTION VI - HEALTH HAZARD DATA							
Acute Health Ha Chronic Health H	zards:	LD _{50(Rat)} >2000 mg/Kg THIS PRODUCT CONTAINS CLAY. IARC HAS CLASSIFIED CRYSTALLINE SILICA (A COMPONENT OF CLAY) AS A PROBABLE HUMAN CARCINOGEN. PROLONGED CONTACT MAY CAUSE LIVER DAMAGE, KIDNEY DAMAGE, CHRONIC MUSCLE DAMAGE.						
Signs & Symptor	Ins & Symptoms of Exposure: EYE CONTACT MAY CAUSE TEARING AND REDNESS. MAY CAU SLIGHT SKIN IRRITATION. INHALATION OF DUST MAY CAUSE IRRITATION TO RESPIRATORY TRACT. INGESTION MAY CAUSE NAUSEA, VOMITING, ABDOMINAL PAIN, MUSCLE WEAKNESS MYOTONIA, AND A FALL IN BLOOD PRESSURE.							
Medical Conditio	ns Generally							
Aggravated by Exposure: MAY AGGRAVATE EXISTING CHRONIC RESPIRATORY PROBL SUCH AS ASTHMA, EMPHYSEMA, OR BRONCHITIS; CONTACT IRRITATE SKIN DISEASE. Chemical Listed as Carcinogen or Potential Carcinogen by:								
Chemical Listed	-		. /					
		cicology Program:	Yes:	No:	1			
	I.A.R.C. Mor	nographs:	Yes:	No:	1			
	O.S.H.A.		Yes:	No:	1			
Emergency & Fir	st Aid Procedures:	FOR PRINCIPLE ROUTI PROCEDURES BELOW NEVER GIVE ANYTHIN	•					
Route of Entry:	Inhalation: Eyes:	REMOVE TO FRESH AI FLUSH WITH FRESH W CALL A PHYSICIAN.						
	Skin:	WASH SKIN WITH PLEN WASH CLOTHES THOR						
	Ingestion:	DRINK 2-3 GLASSES O CALL A PHYSICIAN.			OMITING.			
	-	ΓΙΟΝ VII - SPILL OR LEA						
	en in Case Material is F	Released or Spilled: SN CONTAINERS.DO NOT CONTAMINATION OF S DISPOSE OF IN ACCOF REGULATIONS. 100 LE	O NOT FLUSH AREA WITH WATER AS IT CAN CAUSE ON OF SEWER SYSTEM. ACCORDANCE WITH LOCAL, STATE AND FEDERAL 100 LBS. RESULTS IN A REPORTABLE QUANTITY					
		AS SPECIFIED BY D.O. SPECIAL PROTECTION						
				======================================				
Respiratory Prote Ventilation -	ection (Specify Type): Local Exhaust:	NOT REQUIRED MECHANICAL	Special Exha		D DOWN WIND I USING.			
Protective Equip Eye Protection: Other Protective Work or Hygienic	Equipment: practices:	PLASTIC OR CHEM SAFETY GLASSES PROTECTIVE CLO USE SAFE CHEMIC FOR THE HAZARD	OR CHEMICAL GO THING CAL HANDLING PR S PRESENTED BY	OGGLES OCEDURES THIS MATE	RIAL.			
	S	ECTION IX - SPECIAL PR	======================================	========				
				=======				
Precautions to be Other Precaution	FOOD OR F SPRAYS, W as: AVOID DRIF SKIN OR CL	VALLOW, BREATH DUST EED, APPLY TO WATER ATERING DAIRY ANIMA T TO SUSCEPTIBLE PL/ OTHING. KEEP OU	s used for Irrig Ls or Domestic Ants. Avoid Get T of Reach of C	GATION, AG WATER SU TING INTO HILDREN	GRICULTURAL PPLIES. EYES, ON			
EXPRESSED OR IM BELIEVED TO BE GI CONTEXT OF THE I	OFFERED IN GOOD FAITH A PLIED, IS HEREBY MADE. ⁻ ENERALLY APPLICABLE. H	S TYPICAL VALUES AND NOT A THE RECOMMENDED INDUSTR OWEVER, EACH USER SHOULI MINE WHETHER THEY ARE AP	AS A PRODUCT SPECIF IAL HYGIENE AND SAFI D REVIEW THESE RECO	ICATION. NO V E HANDLING P	WARRANTY, EITHER ROCEDURES ARE			
DJK Date of Last Revisi	ion: 9/30/99							