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SAFETY DATA SHEET

TRADE NAME: Corn Solvent

SECTION 1

MANUFACTURER'S NAME Earthpaint Incorporated		EMERGENCY TELEPHONE NO. Nationwide Poison Center Hotline 1-800-222-1222	
ADDRESS Po Box 19129 Asheville, NC 28815			
CHEMICAL NAME Ethyl Hydroxy Propionate		COMMON NAME Ethyl Lactate	
DOT CLASSIFICATION Combustible Liquid		FORMULA CH ₃ -CH(OH)-COO-CH ₂ CH ₃	

SECTION 2 INGREDIENTS

CHEMICAL OR COMMON NAME	PERCENT	CAS NO.	APPLICABLE PEL-OSHA	EXPOSURE LIMITS TLV-ACGIH
Ethyl Lactate	>99%	97-64-3	None established	None established

CARCINOGENIC INGREDIENTS

CHEMICAL OR COMMON NAME	%	REFERENCE IARC	SOURCE NTP	OSHA	OTHER
None identified	-	-	-	-	-

SECTION 3 HEALTH HAZARD DATA

ACUTE HEALTH EFFECTS

Eyes Irritant.
 Skin Contact Not an irritant.
 Ingestion May cause irritation of the digestive tract.
 Inhalation May cause irritation of mucous membranes.

CHRONIC HEALTH EFFECTS

Oral - Allowed as food additive by FDA and FAO/WHO
 None known, not listed as a carcinogen.

ROUTES OF ENTRY

Most common, skin and inhalation.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Mist may cause eye/respiratory irritation with coughing.

SECTION 4 FIRST AID MEASURES

EYES	Immediately flush with water for at least 15 minutes. See a medical doctor immediately.
SKIN	Wash affected area with soap and water.
INHALATION	Remove person to fresh air. If discomfort occurs and persists, obtain medical attention.
INGESTION	Induce vomiting. See a medical doctor immediately.

SECTION 5 FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA	Water, water fog, carbon dioxide (CO ₂), dry chemical.
SPECIAL FIREFIGHTING PROCEDURES	Wear a self-contained breathing apparatus.
DEGREE OF FIRE AND EXPLOSION HAZARD	Moderate. Rags soaked with any solvent can present a fire hazard and should be stored in UL listed or Factory Mutual approved, covered containers. Improperly stored rags, under certain conditions can lead to spontaneous combustion. Not an explosion hazard.
HAZARDOUS DECOMPOSITION PROCEDURES	None required when completely combusted, decomposes to water and CO ₂ . However, during a fire, incomplete combustion can result in the production of CO.

SECTION 6 ACCIDENTAL RELEASE / SPILL MEASURES

PROCEDURE FOR RELEASE OR SPILL	Cover with large quantity of absorbent material (e.g. kitty litter) and collect in drums for disposal. Clean contaminated area with soap and water.
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SECTION 7 CHEMICAL AND PHYSICAL DATA									
MELTING POINT (°C)	Not applicable	SPECIFIC GRAVITY (H ₂ O=1) @ 25 C	1.029-1.037						
BOILING POINT	309° F	PERCENT VOLATILE BY VOLUME (%)	100						
VAPOR PRESSURE (mmHg)	1.7 @ 68°F	EVAPORATION RATE (butyl acetate=1)	0.22						
VAPOR DENSITY (AIR=1)	4.07	pH OF WATER DISPERSION	4, 10% solution						
SOLUBILITY	100%, in water	APPEARANCE AND ODOR	Clear, colorless liquid with a mild odor						
FLASH POINT (method used)	145° F, ASTM D93	FLAMMABLE LIMITS	<table border="1"> <tr> <td>@ 212 F</td> <td>Lel</td> <td>Uel</td> </tr> <tr> <td></td> <td>1.6%</td> <td>10.6%</td> </tr> </table>	@ 212 F	Lel	Uel		1.6%	10.6%
@ 212 F	Lel	Uel							
	1.6%	10.6%							
EXTINGUISHING MEDIA Water, foam, CO ₂		ODOR THRESHOLD	0.89 mg/m ³ (0.18ppm)						
SPECIAL FIRE FIGHTING PROCEDURES None required		BULK DENSITY (G/ML)	Not applicable						
INCOMPATIBILITY (materials to avoid) Strong oxidizing agents.		VOC CONTENT	906 g/l (7.56 lbs/gal)						
HAZARDOUS DECOMPOSITION PRODUCTS Incomplete combustion can produce CO.		PARTITION COEFFICIENT n-octanol/water	No data						
		AUTOIGNITION TEMPERATURE	752° F						
		EXPLOSIVE PROPERTIES	Not applicable						
		OXIDIZING PROPERTIES	Not applicable						
SECTION 8 STABILITY AND REACTIVITY DATA									
HAZARDOUS POLYMERIZATION	Stable								
CONDITIONS TO AVOID	None known								
MATERIALS TO AVOID	None known								
CONTAMINANTS THAT CONTRIBUTE TO INSTABILITY	Strong oxidizing agents.								
INCOMPATIBILITY	None known								
HAZARDOUS DECOMPOSITION PRODUCTS	None known								
SENSITIVITY TO MECHANICAL IMPACT	None known								
SENSITIVITY TO STATIC DISCHARGE	None known								
SECTION 9 TOXICOLOGICAL INFORMATION									
EYE CONTACT	Irritant (rabbit)								
SKIN CONTACT	LD 50 (rat/24hrs.) >2000mg/kg								
SKIN ABSORPTION	No data available								
INHALATION	LC 50 (rat/4 hrs.) > 5400 mg/m ³								
INGESTION	LD 50 > 4090 mg/kg (rat) (RTECS 1985-6)								
ACUTE EFFECTS FROM OVEREXPOSURE	May cause irritation of the eyes.								
CHRONIC EFFECTS FROM OVEREXPOSURE (effects considered include: sensitivities, carcinogenicity, teratogenicity, mutagenicity, synergistic products, and any medical conditions generally recognized as being aggravated by exposure)	None identified.								
SECTION 10 ECOLOGICAL INFORMATION									
ENVIRONMENTAL FATE	100% Biodegradable								
ENVIRONMENTAL EFFECTS	No adverse effects known or suspected. Not listed as a toxic chemical under SARA Title III 302, 304 or 313								
SECTION 11 HANDLING AND STORAGE									
HANDLING	Keep container tightly closed. Store in a cool, dry, well-ventilated, liquid storage area.								
VENTILATION	Use adequate general or local exhaust ventilation to keep vapor and mist levels as low as possible.								
STORAGE	Store in a cool dry area, away from oxidizers and acids.								
SECTION 12 EXPOSURE CONTROL / PERSONAL PROTECTION									
RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT	None required where adequate ventilation conditions exist.								
RESPIRATORY VENTILATION									
Local Exhaust	Recommended								
Mechanical (general)	In most cases adequate ventilation can be achieved by use of an industrial floor or pedestal fan, combined with sizable inlet and outlet openings to the workspace, such as doors and/or windows. Use chemical goggles.								
EYE PROTECTION	Use impervious gloves to prevent skin contact.								
GLOVES	Aprons recommended. If clothing becomes contaminated, remove and launder before reuse.								
SPECIAL CLOTHING AND EQUIPMENT	None identified.								
OTHER PROTECTIVE EQUIPMENT	Industrial safety shoes are recommended in all industrial settings.								
FOOT PROTECTION	None identified.								
OTHER ENGINEERING CONTROLS	Do not smoke in areas of storage or use. Avoid all contact with skin and eyes.								
WORK PRACTICES	Minimize eye and skin contact by using appropriate protective equipment. Use local or general room ventilation to control vapors or mist that may be generated into the work environment.								
CONTROL MEASURES									

SECTION 13 SPECIAL PRECAUTIONS DATA

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Avoid all contact with eyes or skin. Wear the appropriate protective equipment. Protect containers from physical damage.

MAINTENANCE PERSONNEL

Wash down vessels. Check the oxygen and combustible vapor content of the vessel atmosphere. Use the appropriate protective equipment.

SECTION 14 DISPOSAL PROCEDURES

WASTE DISPOSAL METHOD	Take up with sand or other non-combustible absorbent material and place into container for later disposal. Flush area with water. Dispose in accordance with all applicable Federal, State, and local environmental regulations. Spent product may be offered for fuel blending incineration.
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SECTION 15 TRANSPORT INFORMATION

DOT PROPER SHIPPING NAME	Earthpaint Corn Solvent (under 119 gallons)
IATA	Ethyl Lactate,3,UN1192,PGIII
IMDG	None
DOT CLASSIFICATION	Combustible liquid
DOT LABELS	None required, under 119 gallons
DOT MARKING	Not applicable
DOT PLACARD	Bulk: Combustible liquid, 1993
IDENTIFICATION NUMBER	UN 1192
PACKING GROUP	III
HAZARDOUS SUBSTANCE/RQ	None
49 STCC NUMBER	Not applicable
PRECAUTIONS TO BE TAKEN IN TRANSPORTATION	None needed
OTHER SHIPPING INFORMATION	None

SECTION 16 REGULATORY INFORMATION

OSHA EXPOSURE LIMITS SUBSTANCE(S)	Ethyl Lactate
OSHA PEL-TWA	None established
STEL	None established
CEILING	None established
SKIN DESIGNATION	None established
ACGIH TLV-TWA	None established
STEL	None established
CEILING	None established
SKIN DESIGNATION	None established
TARGET ORGAN EFFECTS	Eye
CARCINOGENIC POTENTIAL	None
REGULATED BY OSHA	No
LISTED ON NTP REPORT	No
IARC GROUP 1, 2A, 2D	No
US EPA REQUIREMENTS RELEASE REPORTING CERCLA (40 CFR 302)	
LISTED SUBSTANCE(S)	Not listed
RQ	Not applicable
Category	Not applicable
RCRA waste number	Not applicable
UNLISTED SUBSTANCE(S)	Ethyl Lactate
RQ	None
Characteristic	Not applicable
RCRA waste number	Not applicable
SARA TITLE III SEC 313 (40 CFR 372)	
LISTED TOXIC CHEMICAL	Not listed
INVENTORY REPORTING SARA TITLE III SEC 311/312 (40 CFR 370)	
SUBSTANCE(S)	Not listed
Hazard category	Not applicable
Planning threshold	Not applicable
Emergency planning	Not applicable
SARA TITLE III SEC 302-303 (40 CFR 355)	
Listed substance(s)	Not listed
RQ	Not applicable
Planning threshold	Not applicable
US TSCA STATUS	Listed
CANADA INGREDIENT DISCLOSURE LIST SUBSTANCE(S)	
CONTROLLED PRODUCT	Not listed
HAZARD SYMBOLS	
CLASS AND DIVISION	
PRODUCT IDENTIFICATION NO.	
DOMESTIC SUBSTANCE LIST	Listed
CEPA PRIORITY LIST	Not listed

SECTION 16 REGULATORY INFORMATION (CONTINUED)			
CARCINOGENICITY ACGIH APPENDIX A A1 - CONFIRMED HUMAN A1 - SUSPECTED HUMAN	Not listed in either OSHA, ACGIH, NTP, or IARC Not listed Not listed Not listed		
IARC GROUP 1 OR 2	No		
LABEL LANGUAGE (US/CANADA) HEALTH PHYSICAL HANDLING AND STORAGE	Not applicable Keep container tightly closed. Store in a cool, dry, well-ventilated liquid storage area.		
FIRST AID	In case of contact, immediately flush eyes with water for at least 15 minutes. If irritation persists, obtain medical attention. Flush skin with water.		
STATE REGULATIONS			
SECTION 17 ADDITIONAL INFORMATION			
OSHA permissible exposure limit or ACGIH threshold limit value has not been established.			
SECTION 18 HMIS LABEL			
HEALTH 1	FLAMMABILITY 2	REACTIVITY 0	PERSONAL PROTECTION B

GROUND TRANSPORTATION (DOT)
Hazardous Materials Regulations, 49 CFR
Exception allowed under 173.150
(Under 119 gallons)

Proper Shipping Name: Corn Solvent
Hazard Class: None
Packaging Group: None
Reportable Quantity: None
Label Required (Drums): None

GROUND TRANSPORTATION (DOT)
Hazardous Materials Regulations, 49 CFR
Exception allowed under 173.150
(Over 119 gallons)

Proper Shipping Name: Combustible Liquid, n.o.s. (Corn Solvent),
Combustible liquid, NA1993, PG III
Hazard Class: Combustible Liquid
Packaging Group: III
Reportable Quantity: None
Placard Required: Combustible liquid 1993

OCEAN TRANSPORTATION (IMO)

Proper Shipping Name: Corn Solvent
Hazard Class: None
Packing Group: None
Label Required: None
Stowage on Vessels: Above or Below Deck

AIR TRANSPORTATION (IATA)

Proper Shipping Name: Corn Solvent, 3, UN1192, PGIII
Hazard Class: 3
Packing Group: III
Max. Quantity Pass. Aircraft: 60L/container
Max. Quantity Cargo Aircraft: 220L/container

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