PRODUCT INFORMATION BULLETIN



BIO SOLV

Regulatory Agency Information OSHA-DÓT

PREPARATION/REVISION DATE LMP 6/10/14

Product Information Bulletin MATERIAL SAFETY DATA SHEET

TRADE NAME: BIO SOLV		ETHYL	LACTATE BLENI)			
SECTION 1							
MANUFACTURER'S NAME			EMERGENCY TE	LEPHONE NO.			
BIO BRANDS, LLC			800-424-9300 (CHEMTREC)				
ADDRESS							
602 Union Landing Road							
Cinnaminson, NJ 08077 856 303-9	245 800-39	8-7556					
CHEMICAL NAME			COMMON NAME				
Ethyl Hydroxy Propionate / proprietar	y co-solvent		Ethyl Lactate Blen	d			
DOT CLASSIFICATION			FORMULA				
Combustible Liquid			Blend				
SECTION 2 HAZARDOUS INGREDIENTS							
CHEMICAL OR COMMON NAME	PERCENT	CAS NO.	APPLICABLE PE	L-OSHA EX	POSURE LIM	ITS TLV-ACGIH	
Ethyl Lactate	10-90	97-64-3	None establi	shed	None es	stablished	
Proprietary co-solvent	10-90	Proprietary	None establi	None established		None established	
Inhibitor	<0.01	Proprietary	None established None established		stablished		
CARCINOGENIC INGREDIENTS							
CHEMICAL OR COMMON NAME		%	REFERENCE	SOURCE			
			IARC	NTP	OSHA	OTHER	
None identified		-	-	-	-	-	

HEALTH HAZARD DATA SECTION 3

ACUTE HEALTH EFFECTS

Irritant. Skin Contact Not an irritant.

May cause irritation of the digestive tract. Ingestion

Prolonged exposure may cause irritation of mucous membranes. Inhalation

CHRONIC HEALTH EFFECTS

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	See a medical doctor immediately.			
SECTION 5 FIRE FIGHTING MEASURES				
EXTINGUISHING MEDIA	Water, water fog, carbon dioxide (co ₂), dry chemical.			
SPECIAL FIREFIGHTING	Wear a self-contained breathing apparatus.			
PROCEDURES				
DEGREE OF FIRE AND	Moderate. Rags soaked with any solvent can present a fire hazard and should be stored in UL listed or			
EXPLOSION HAZARD	Factory Mutual approved, covered containers. Forms peroxides of unknown stability if material			
	becomes uninhibited. Not an explosion hazard when inhibited.			
HAZARDOUS	None required when completely combusted, decomposes to water and CO ₂ . However, during a fire,			
DECOMPOSITION	incomplete combustion can result in the production of CO.			
PROCEDURES				
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.

	7 CHEM	ICAL AND DUVEICAL I		
SECTION MELTING POINT (°C)	ND CHEIN	ICAL AND PHYSICAL I SPECIFIC GRAVITY (H ₂ O=		0.000
BOILING POINT	300° F	PERCENT VOLATILE BY \		0.988
VAPOR PRESSURE (mmHg)	0.54 @ 68°F	EVAPORATION RATE (but		0.14
VAPOR PRESSURE (IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	4.6	pH OF WATER DISPERSION		4.8, 10% solution
SOLUBILITY		APPEARANCE AND		
SOLUBILITY	Partially	ODOR	odor.	liquid, pungent ester
FLASH POINT	133° F, ASTM D93	FLAMMABLE LIMITS	Lel	Uel
FLASH FOINT	133 F, A3TW D93	@ 212 F	No data	No data
EXTINGUISHING MEDIA - Water, foam, C	· ^	ODOR THRESHOLD	No data No d	
SPECIAL FIRE FIGHTING PROCEDURES		VOC CONTENT		ala g/l (8.24 lbs/gal)
		BULK DENSITY (G/ML)	900 (y/i (0.24 ibs/yai)
Wear a self-contained breathing apparatus INCOMPATIBILITY (materials to avoid)		PARTITION COEFFICIENT		
Strong oxidizing agents, acids and alkalies	(n-octanol/water) No data			
HAZARDOUS DECOMPOSITION PRODU	AUTOIGNITION TEMPERATURE No data			
Incomplete combustion can produce CO.		EXPLOSIVE PROPERTIES		applicable
mooniplete compaction can produce co.		OXIDIZING PROPERTIES		applicable
SECTION	8 STABII	ITY AND REACTIVITY		
02011011	STABILITY	Forms peroxides if material		hited
ΗΔ7ΑΡΩΟΙ	IS POLYMERIZATION	None known	DOCUMES UNIMITIES	onou.
	NDITIONS TO AVOID	Heat sparks and open flame	2	
	ATERIALS TO AVOID	Strong oxidizing agents, aci		
MAJOR CONTAMINANTS TH		None known	as and antanes.	
	INSTABILITY	Trong kilowii		
	INCOMPATIBILITY	None known		
HAZARDOUS DECOMP		Carbon monoxide		
SENSITIVITY TO M	ECHANICAL IMPACT	None known		
SENSITIVITY TO	STATIC DISCHARGE	None known		
	SECTION 9	TOXICOLOGICAL INF	ORMATION	
	EYE CONTACT	Irritant		
	SKIN CONTACT	No data available		
	SKIN ABSORPTION	No data available		
	INHALATION	No data available		
	INGESTION	No data available		
ACUTE EFFECTS FR	OM OVEREXPOSURE	May cause irritation of the e	yes.	
CHRONIC EFFECTS FR		None identified		
(effects considered include: sensitiv				
teratogenicity, mutagenicity, synergis				
medical conditions generally				
-	ravated by exposure)	N COLCAL INICODMATI	ON	
SECTION)N 10 ECC	LOGICAL INFORMATI	ON	
			U	
	VIRONMENTAL FATE	100% Biodegradable		t Pata dita da
	VIRONMENTAL FATE	100% Biodegradable No adverse effects known o	r suspected. No	
ENVIRO	ONMENTAL EFFECTS	100% Biodegradable No adverse effects known o chemical under SARA Title	r suspected. No	
ENVIRO	ONMENTAL EFFECTS ON 11 HA	100% Biodegradable No adverse effects known o chemical under SARA Title NDLING AND STORAG	r suspected. No III 302, 304 or 3	13.
ENVIRO	ONMENTAL EFFECTS ON 11 HA HANDLING	100% Biodegradable No adverse effects known o chemical under SARA Title NDLING AND STORAG Keep container tightly close	r suspected. No III 302, 304 or 3° BE d. Minimize exp	osure to air.
ENVIRO	ONMENTAL EFFECTS ON 11 HA	100% Biodegradable No adverse effects known o chemical under SARA Title NDLING AND STORAG Keep container tightly closed Use adequate general or loc	r suspected. No III 302, 304 or 3° BE d. Minimize exp cal exhaust venti	osure to air.
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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.

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.			
SECTION 15 TRANSPORT INFORMATION				
DOT PROPER SHIPPING NAME	BIO SOLV (under 119 gallons)			
IATA	UN1993, Flammable Liquids, n.o.s. (Ethyl Lactate, Ethyly-3-ethoxyproionate)			
IMDG	UN1993, Flammable Liquids, n.o.s. (Ethyl Lactate, Ethyly-3-ethoxyproionate)			
DOT CLASSIFICATION	Combustible liquid			
DOT LABELS	None required, under 119 gallons			
DOT MARKING	Not applicable			
DOT PLACARD	Bulk: Combustible Liquid, 1993			
IDENTIFICATION NUMBER	NA 1993			
PACKAGING GROUP	PG 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, Proprietary co-solvent 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, Proprietary co-solvent

None Characteristic Ignitability

RCRA waste number D001 SARA TITLE III SEC 313 (40 CFR 372)

Listed toxic chemical

INVENTORY REPORTING SARA TITLE III SEC 311/312 (40 CFR 370)

Substance(s) Hazard category Planning threshold

Emergency planning

SARA TITLE III SEC 302-303 (40 CFR 355) LISTED SUBSTANCE(S)

> **PLANNING THRESHOLD US TSCA STATUS**

CANADA INGREDIENT DISCLOSURE LIST SUBSTANCE(S) CONTROLLED PRODUCT

HAZARD SYMBOLS CLASS AND DIVISION PRODUCT IDENTIFICATION NO.

DOMESTIC SUBSTANCE LIST CEPA PRIORITY LIST Ethyl Lactate, Proprietary co-solvent Immediate health hazard, Fire hazard 10,000 pounds

Not listed

Not applicable Not applicable

Not applicable Listed

Not listed

Not listed

Class B, Division 2

Listed

SECTION 16 REGULATORY I	NFORMATION (CONTINUED)
CARCINOGENICITY	Not listed in either OSHA, ACGIH, NTP, or IARC
ACGIH APPENDIX A	Not listed
A1 - CONFIRMED HUMAN	Not listed
A1 - SUSPECTED HUMAN	Not listed
EINECS (Europe)	202-598-0, proprietary co-solvent, listed
METI/CSCL (Japan)	2-1371, proprietary co-solvent, listed
IECSC (China)	Listed
AICS (Australia)	Listed
ERMA (New Zealand)	Listed
IARC GROUP 1 OR 2	No
LABEL LANGUAGE (US/CANADA) HEALTH	
PHYSICAL HANDLING AND STORAGE	Keep container tightly closed. Minimize exposure to air. 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. Wash
	skin with soap and water.
STATE REGULATIONS	
SECTION 17 ADI	DITIONAL INFORMATION

	SECTION	I 18 HMIS LABEI	
HEALTH	FLAMMABILITY	REACTIVITY	PERSONAL PROTECTION
1	2	0	В

DEPARTMENT OF TRANSPORTATION

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

Proper Shipping Name: BIOSOLV

Hazard Class: Combustible liquid

Packaging Group: III
Reportable Quantity: None
Label Required (Drums): None

Placard Required (Bulk): Combustible liquid, NA1993

Max. Quantity Pass. Aircraft: 60L/container
Max. Quantity Cargo Aircraft: 220L/container

Stowage on Vessels: Above or Below Deck

The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the user to comply with all applicable federal, state and local laws and regulations.