



Mastic Remover

Ethyl Lactate/Methyl Soyate

BioBased Solvent

Corn & Soybean Derived

Patented blend of vegetable esters ideal for formulating mastic/adhesives removers, asphalt cleaners, release agents, and hand cleaners. Made with soybean and corn derived ingredients. This VertecBio Gold formula contains a higher concentration of methyl soyate. Therefore, it has a higher flash point and reduced ethyl lactate odor.

- Ideal for Mastic Remover, Asphalt Cleaners, Release Agents
- No Petroleum Ingredients
- Excellent Solvency for Paints, Coatings and Inks
- Low Vapor Pressure and High Loading Capacity
- 100% Biodegradable to Carbon Dioxide and Water
- Safe, Non-Toxic, Non-Carcinogenic
- Flash Point over 150 °F
- No Environmentally Hazardous Ingredients
- Non-Hazardous under RCRA
- 100% Biobased content, made from Renewable Resources
- No ODC's---No Ozone Depleting Chemicals
- No HAP's---No Hazardous Air Pollutants
- No Global Warming Compounds
- EPA Approved SNAP Solvent
- Non SARA 313 Reportable



Recognized As Environmentally
Preferable Chemistry

TECHNICAL DATA

Flash Point.....164 ASTM D93 closed cup
Vapor Pressure.....<1mHg @ 68 F
pH of Water Dispersion.....4.4
Specific Gravity.....0.9
Evaporation Rate.....<.1
Vapor Density.....>4
Boiling Point.....>300 F
CAS No:97-64-3 &
.....67784-80-9 or 67762-38-3



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PRODUCT INFORMATION BULLETIN

VERTECBIO GOLD #3

Regulatory Agency Information
 OSHA-DOT

PREPARATION/REVISION DATE
 LMP 05/06/04

PRODUCT INFORMATION BULLETIN
MATERIAL SAFETY DATA SHEET

TRADE NAME: VERTECBIO GOLD #3 ETHYL LACTATE BLEND

SECTION 1

MANUFACTURER'S NAME VERTEC BIOSOLVENTS, INC.			EMERGENCY TELEPHONE NO. 800-424-9300 (CHEMTREC)	
ADDRESS 1441 Branding Lane, Suite 100 Downers Grove, Illinois 60515 USA				
CHEMICAL NAME Ethyl Hydroxy Propionate / Fatty Acid Methyl Esters			COMMON NAME Ethyl Lactate / Methyl Soyate	
DOT CLASSIFICATION Combustible Liquid			FORMULA Blend	
CHEMICAL OR COMMON NAME	PERCENT	CAS NO.	APPLICABLE PEL-OSHA	EXPOSURE LIMITS TLV-ACGIH
Methyl Soyate	10-90	67784-80-9 & 67762-38-3	None established	None established
Ethyl Lactate	10-90	97-64-3	None established	None established

SECTION 2 HAZARDOUS INGREDIENTS

CHEMICAL OR COMMON NAME	PERCENT	CAS NO.	APPLICABLE PEL-OSHA	EXPOSURE LIMITS TLV-ACGIH
None	-	-	-	-

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

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 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)	0.9						
BOILING POINT	No data	PERCENT VOLATILE BY VOLUME (%)	25						
VAPOR PRESSURE (mmHg)	<1	EVAPORATION RATE (butyl acetate=1)	<1						
VAPOR DENSITY (AIR=1)	>4	pH OF WATER DISPERSION	4.4, 10% solution						
SOLUBILITY	20%, in water	APPEARANCE AND ODOR	Clear colorless to light yellow liquid, with a mild odor.						
FLASH POINT (method used)	164° F, ASTM D93	FLAMMABLE LIMITS	<table border="1"> <thead> <tr> <th>LeI</th> <th>Uel</th> </tr> </thead> <tbody> <tr> <td>@ 212 F</td> <td>No data</td> </tr> <tr> <td></td> <td>No data</td> </tr> </tbody> </table>	LeI	Uel	@ 212 F	No data		No data
LeI	Uel								
@ 212 F	No data								
	No data								
EXTINGUISHING MEDIA – Water fog, foam, CO ₂		ODOR THRESHOLD	No data						
SPECIAL FIRE FIGHTING PROCEDURES		BULK DENSITY (G/ML)							
None required		PARTITION COEFFICIENT							
INCOMPATIBILITY (materials to avoid)		n-octanol/water	No data						
Strong oxidizing agents.		AUTOIGNITION TEMPERATURE	No data						
HAZARDOUS DECOMPOSITION PRODUCTS		EXPLOSIVE PROPERTIES	Not applicable						
Incomplete combustion can produce CO.		OXIDIZING PROPERTIES	Not applicable						
SECTION 8 STABILITY AND REACTIVITY DATA									
STABILITY		Stable							
HAZARDOUS POLYMERIZATION		None known							
CONDITIONS TO AVOID		None known							
MATERIALS TO AVOID		Strong oxidizing agents.							
MAJOR CONTAMINANTS THAT CONTRIBUTE TO INSTABILITY		None known							
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							
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		None identified							
(effects considered include: sensitivities, carcinogenicity, teratogenicity, mutagenicity, synergistic products, and any medical conditions generally recognized as being aggravated by exposure)									
SECTION 10 ECOLOGICAL INFORMATION									
ENVIRONMENTAL FATE		100% Biodegradable							
ENVIRONMENTAL EFFECTS		No adverse effects known or suspected. Not listed 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		Recommended							
Local Exhaust		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.							
Mechanical (general)		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.

SECTION 15 TRANSPORT INFORMATION**DOT PROPER SHIPPING NAME**

VertecBio Gold #3 (under 119 gallons)

IATA

Non-regulated

IMDG

Non-regulated

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

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, Methyl Soyate

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, Methyl Soyate

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	Not listed in either OSHA, ACGIH, NTP, or IARC		
ACGIH APPENDIX A	Not listed		
A1 - CONFIRMED HUMAN	Not listed		
A1 - SUSPECTED HUMAN	Not listed		
IARC GROUP 1 OR 2	No		
LABEL LANGUAGE (US/CANADA) HEALTH	Not applicable		
PHYSICAL HANDLING AND STORAGE	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

DEPARTMENT OF TRANSPORTATION

Hazardous Materials Regulations, 49 CFR

Non-hazardous

Proper Shipping Name: VertecBio Gold #3 (under 119 gallons)
Hazard Class: Combustible liquid
Packaging Group: III
Reportable Quantity: None
Label Required (Drums): None
Placard Required (Bulk): Combustible liquid, 1993
Max. Quantity Pass. Aircraft: 60L/container
Max. Quantity Cargo Aircraft: 220L/container
Stowage on Vessels: Above or Below Deck

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