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PRODUCT INFORMATION BULLETIN

VERTECBIO GOLD #2

Regulatory Agency Information
OSHA-DOT

PREPARATION/REVISION DATE
LMP 05/18/02

PRODUCT INFORMATION BULLETIN MATERIAL SAFETY DATA SHEET

TRADE NAME: VERTECBIO GOLD #2

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 Methyl Soyate	PERCENT 10-90	CAS NO. 67784-80-9	APPLICABLE PEL-OSHA None established	EXPOSURE LIMITS TLV-ACGIH None established

SECTION 2 HAZARDOUS INGREDIENTS

CHEMICAL OR COMMON NAME Ethyl Lactate	PERCENT 10-90	CAS NO. 97-64-3	APPLICABLE PEL-OSHA None established	EXPOSURE LIMITS TLV-ACGIH None established
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CARCINOGENIC INGREDIENTS

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

SECTION 3 HEALTH HAZARD DATA

ACUTE HEALTH EFFECTS

Eyes Risk of damage.
Skin Contact Not an irritant.
Ingestion
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	Rinse with 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 NIOSH approved respirator.
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	Decomposes to water and CO ₂ when completely combusted.

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 water and discharge to sewer.
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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	298° F	PERCENT VOLATILE BY VOLUME (%)	33		
VAPOR PRESSURE (mmHg)	@ 68°F	EVAPORATION RATE (butyl acetate=1)			
VAPOR DENSITY (AIR=1)	4.1	pH OF WATER DISPERSION	7.7, 10% solution		
SOLUBILITY	30%, in water	APPEARANCE AND ODOR	Clear, colorless to light yellow liquid with a mild odor.		
FLASH POINT (method used)	155° F, ASTM D93	FLAMMABLE LIMITS	LeI	UeI	
		@ 212 F	No data	No data	
EXTINGUISHING MEDIA		ODOR THRESHOLD	No data		
Water, foam, CO ₂		BULK DENSITY (G/ML)			
SPECIAL FIRE FIGHTING PROCEDURES		PARTITION COEFFICIENT			
Not required		n-octanol/water	Not applicable		
INCOMPATIBILITY (materials to avoid)		AUTOIGNITION TEMPERATURE	No data		
None		EXPLOSIVE PROPERTIES	Not applicable		
HAZARDOUS DECOMPOSITION PRODUCTS		OXIDIZING PROPERTIES	Not applicable		
None					
SECTION 8			STABILITY AND REACTIVITY DATA		
HAZARDOUS POLYMERIZATION	STABILITY	Stable			
CONDITIONS TO AVOID		None known			
MATERIALS TO AVOID		None known			
MAJOR 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			
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 acids.			
SECTION 12			EXPOSURE CONTROL / PERSONAL PROTECTION		
RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT		None required where adequate ventilation conditions exist.			
RESPIRATORY		Recommended			
VENTILATION		General dilution			
Local Exhaust		Use chemical goggles.			
Mechanical (general)		Use impervious gloves to prevent skin contact.			
EYE PROTECTION		Aprons recommended. If clothing becomes contaminated, remove and launder before reuse.			
GLOVES		None identified			
SPECIAL CLOTHING AND EQUIPMENT		Industrial safety shoes are recommended in all industrial settings.			
OTHER PROTECTIVE EQUIPMENT		None identified			
FOOT PROTECTION		Do not smoke in areas of storage or use. Avoid all contact with skin and eyes.			
OTHER ENGINEERING CONTROLS		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.			
WORK PRACTICES					
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**

Compounds, cleaning liquid, 3, NA 1993, PG III

IATA

Non hazardous

IMDG

Class 3.3

DOT CLASSIFICATION

Combustible liquid

DOT LABELS

None required

DOT MARKING

Not applicable

DOT PLACARD

Bulk: Combustible liquid, 1993

IDENTIFICATION NUMBER

NA 1993

PACKAGING GROUP

III

HAZARDOUS SUBSTANCE/RQ

Not applicable

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

AGGIH 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****HAZARD SYMBOLS****CLASS AND DIVISION****PRODUCT IDENTIFICATION NO.****DOMESTIC SUBSTANCE LIST****CEPA PRIORITY LIST**

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		FLAMMABILITY		REACTIVITY		PERSONAL PROTECTION	
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DEPARTMENT OF TRANSPORTATION

Hazardous Materials Regulations, 49 CFR

Proper Shipping Name: Compounds, cleaning liquid, 3, NA1993, PG III
 Hazard Class: 3
 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

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.