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PRODUCT INFORMATION BULLETIN

VERTECBIO GOLD INK ZAPPER, IZ-66

Regulatory Agency Information
 OSHA-DOT

PREPARATION/REVISION DATE
 LMP 05/26/04

Product Information Bulletin

MATERIAL SAFETY DATA SHEET

TRADE NAME: VERTECBIO GOLD INK ZAPPER, IZ-66 (PRESS, BLANKET & ROLLER WASH)

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 Solvent Blend	COMMON NAME Ethyl Lactate Solvent Blend
DOT CLASSIFICATION Combustible Liquid	FORMULA Blend

SECTION 2 HAZARDOUS INGREDIENTS

CHEMICAL OR COMMON NAME	PERCENT	CAS NO.	PEL-OSHA	TLV-ACGIH
Ethyl Lactate	30-70	97-64-3	None Established	None Established
Fatty Acids C ₁₆ -C ₁₈ and C ₁₈ Unsaturated Methyl Esters	1-15	67762-38-3	None Established	None Established
Proprietary Solvent "A"	10-40	—	None Established	None Established
Proprietary Surfact "A"	10-40	—	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 Possible narcotic effects at excessive exposure.

CHRONIC HEALTH EFFECTS

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	Immediately give two glasses of water. Do not 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 PRODUCTS	None required when completely combusted, decomposes to water and CO ₂ . Intermediate aldehydes and ketones may be formed on burning along with 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. Prevent entry into sewers and waterways.
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SECTION 7 CHEMICAL AND PHYSICAL DATA			
MELTING POINT (°C)	Not Applicable	SPECIFIC GRAVITY (H ₂ O=1)	1.008
BOILING POINT	289°F	PERCENT VOLATILE BY VOLUME (%)	Not Determined
VAPOR PRESSURE (mmHg)	1.0	EVAPORATION RATE (butyl acetate=1)	0.08
VAPOR DENSITY (AIR=1)	4.1	pH OF WATER DISPERSION	4
SOLUBILITY	20%, in water	APPEARANCE AND ODOR	Clear Colorless Liquid, mild odor
FLASH POINT	152° F, ASTM D93	FLAMMABLE LIMITS	Lel Uel
		@212 F	No data No data
EXTINGUISHING MEDIA	Water, foam, CO ₂	ODOR THRESHOLD	No data
SPECIAL FIRE FIGHTING PROCEDURES	None required	BULK DENSITY (G/ML)	
INCOMPATIBILITY (materials to avoid)	Strong oxidizing agents and acids.	PARTITION COEFFICIENT (n-octanol/water)	Not applicable
HAZARDOUS DECOMPOSITION PRODUCTS	Intermediate aldehydes and ketones along with CO.	AUTOIGNITION TEMPERATURE	No data
		EXPLOSIVE PROPERTIES	Not applicable
		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 and acids.	
MAJOR CONTAM. THAT CONTRIBUTE TO INSTABILITY		None known	
INCOMPATIBILITY		None known	
HAZARDOUS DECOMPOSITION PRODUCTS		Intermediate aldehydes and ketones along with CO.	
SENSITIVITY TO MECHANICAL IMPACT		None known	
SENSITIVITY TO STATIC DISCHARGE		None known	
SECTION 9 TOXICOLOGICAL INFORMATION			
EYE CONTACT		Severe irritant	
SKIN CONTACT		No data	
SKIN ABSORPTION		No data	
INHALATION		No data	
INGESTION		No data	
ACUTE EFFECTS FROM OVEREXPOSURE		May cause severe irritation of the eyes.	
CHRONIC EFFECTS FROM OVEREXPOSURE		None identified	
<i>(effects considered include: sensitivities, carcinogenicity, teratogenicity, mutagenicity, synergistic products, and any medical conditions generally recognized as being aggravated by exposure)</i>			
SECTION 10 ECOLOGICAL INFORMATION			
ENVIRONMENTAL FATE		Not determined.	
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			
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	
EYE PROTECTION		Use chemical goggles or face shield.	
GLOVES		Use impervious gloves to prevent skin contact.	
SPECIAL CLOTHING AND EQUIPMENT		Aprons recommended. If clothing becomes contaminated, remove and launder before reuse.	
OTHER PROTECTIVE EQUIPMENT		None identified	
FOOT PROTECTION		Industrial safety shoes are recommended in all industrial settings.	
OTHER ENGINEERING CONTROLS		None identified	
WORK PRACTICES		Do not smoke in areas of storage or use. Avoid all contact with skin and eyes.	
CONTROL MEASURES		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.	

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

Clean 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. Dispose in accordance with all applicable Federal, State, and local environmental regulations.

SECTION 15 TRANSPORT INFORMATION

DOT PROPER SHIPPING NAME	VertecBio Gold Ink Zapper, IZ-66 (under 119 gallons)
IATA	Non-regulated
IMDG	Non-regulated
DOT CLASSIFICATION	Combustible liquid
DOT LABELS	None required, under 119 gallons
DOT MARKING	Marine Pollutant (Ocean Shipment Only)
DOT PLACARD	Bulk: Combustible liquid, NA1993
IDENTIFICATION NUMBER	NA 1993
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, Fatty Acid Methyl Esters, Proprietary solvent "A", Proprietary surfactant "A"
OSHA PEL-TWA	Not established
OSHA STEL	Not established
OSHA CEILING	Not established
SKIN DESIGNATION	Not established
AGGIH TLV-TWA	Not established
AGGIH STEL	Not established
AGGIH CEILING	Not established
SKIN DESIGNATION	Not 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, Fatty Acid Methyl Esters, Proprietary solvent "A", Proprietary surfactant "A"
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	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 2	FLAMMABILITY 2	REACTIVITY 0	PERSONAL PROTECTION B

DEPARTMENT OF TRANSPORTATION

Hazardous Materials Regulations, 49 CFR

Proper Shipping Name: VertecBio Gold Ink Zapper, IZ-66
(under 119 gallons)

Hazard Class: Combustible liquid

Packaging Group: III

Reportable Quantity: None

Label Required (Drums): Marine pollutant mark (for Ocean Shipment Only)

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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