

**MATERIAL SAFETY DATA SHEET**  
Jet Coding Inks

The Leader Corporation  
731 109<sup>th</sup> Street  
Arlington, TX 76011

Division of: Squid Ink Manufacturing, Inc.  
1173 Osborne Road  
Spring Lake Park, MN 55432

Last Update: April 8, 2002  
MSDS Number: 1009021  
Emergency: (800) 424-9300

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**I. PRODUCT IDENTIFICATION**

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Product Name: LD-PZ3000 Ink Jet Inks LD- PZ-3000 Black, LD- PZ-3001 Red, LD-PZ-3002, LD-PZ-3003 Green LD-PZ3110 White, LD-PZ3111 Yellow, LD-PZ3105 Yellow, and LD-PZ30UV UV Visible.  
(LANNO SERIES)  
Chemical Family: Lactic Acid

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**II. INGREDIENTS**

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<u>Ingredient</u>	<u>CAS No.</u>	<u>Wt. %</u>	<u>LD50</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>OSHA STEL</u>
Ethyl Lactate	97-64-3	65-90	>2000mg/kg	N/A	N/A	N/A

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**III. PHYSICAL DATA**

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Boiling Point: 309° F / 154° C  
Vapor Pressure (mm Hg): 1.7  
Vapor Density (Air=1): >1  
Solubility in Water: Miscible  
Evaporation Rate (n-Butyl Acetate=1): <1  
Specific Gravity (Water=1): 0.98-1.02  
Percent Volatile by Volume (%): 80-95  
Appearance and odor: Colored Liquid with distinctive odor

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**IV. FIRE AND EXPLOSION HAZARD DATA**

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Flash Point: 139° F / 59° C  
Flammable Limits: LEL: 1.6 UEL: 10.6  
Extinguishing Media: Carbon dioxide, dry chemical, or alcohol foam  
Special Fire Fighting Procedures: Wear a self-contained breathing apparatus and chemical resistant protection  
Unusual Fire and Explosion Hazards: Combustible, may ignite by spark or open flame.

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**V. REACTIVITY DATA**

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Stability: (X) Stable ( ) Unstable  
Incompatibility: Oxidizing Materials.  
Hazardous decomposition products: Carbon Monoxide on combustion.  
Conditions to avoid: Prevent exposure to excessive heat and flame.

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**VI. HEALTH HAZARD DATA**

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Effects of Overexposure:

Eye Contact: Can cause irritation, redness, tearing and blurred vision.  
Skin Contact: Prolonged or repeated contact can cause minor skin irritation.  
Inhalation: Excessive inhalation of vapors can cause nasal and respiratory irritation.  
Ingestion: Can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

First Aid:

Eye Contact: Flush with large amounts of water for 15 minutes and seek medical attention.  
Skin Contact: Remove contaminated clothing. Wash skin with soap and water.  
Inhalation: Remove to fresh air. If breathing is difficult, administer oxygen. If problems persist, seek medical attention.  
Ingestion: Keep person warm and seek medical advice on whether to induce vomiting.

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### VII. SPILL OR LEAK PROCEDURES

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Steps to be taken in case material is released or spilled:

Isolate spill. Prevent run-off to sewers or other bodies of water. Absorb liquid with suitable absorbent material and place in containers for proper disposal.

Waste Disposal: Dispose contaminated absorbent in accordance with local, state and federal regulations.

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### VIII. SPECIAL PROTECTION INFORMATION

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Respiratory Protection: NIOSH / MSHA approved respirator when high concentrations of vapors exist.

Ventilation: Provide sufficient mechanical ventilation to maintain low concentrations of vapors.

Protective Clothing: Chemical resistant gloves.

Eye Protection: Safety goggles.

Other Protective Equipment: As necessary to avoid prolonged contact.

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### IX. TRANSPORTATION

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Proper Shipping Names:	DOT Printers Inkl	IMCO: Ink
Hazard Classification:	Flammable Liquid UN 1210	Flammable Liquid UN 1993

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### X. HAZARDOUS MATERIALS IDENTIFICATION SYSTEM

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Hazard Ratings: 0 - Minimal      1 - Slight      2 - Moderate      3 - Serious      4 - Severe

Health: 1

Flammability: 2

Reactivity: 0

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