

**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-PZ4010 Yellow & White Non-Porous Ink Jet Ink (Alpine Series)

Chemical Family: Ketone

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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> |
|---------------------------------|----------------|--------------|-------------|------------------|-----------------|------------------|
| Cyclohexanone                   | 108-94-1       | 40-50        | 1.6ml/kg    | 25ppm            | 25ppm           | NA               |
| 1-Methoxy-2-propanol<br>Acetate | 108-65-6       | 20-30        | NA          | 100ppm           | NA              | NA               |
| Isophorone                      | 78-59-1        | 5-10         | 2200mg/kg   | NA               | NA              | NA               |

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**III. PHYSICAL DATA**

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Boiling Point: 3000400° F / 149/204° C  
Vapor Pressure (mm Hg): Not Determined  
Vapor Density (Air=1): 3-4.00  
Solubility in Water: Miscible.  
Evaporation Rate (n-Butyl Acetate=1): 0.12  
Specific Gravity (Water=1): 1.04  
Percent Volatile by Volume (%): 80-95  
Appearance and odor: Yellow Liquid with ketone odor

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**IV. FIRE AND EXPLOSION HAZARD DATA**

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Flash Point: 110° F / 43° C  
Flammable Limits: LEL: 1.5 UEL:7.5  
Extinguishing Media: Carbon dioxide, dry chemical, or alcohol foam.  
Special Fire Fighting Procedures: Wear a self-contained breathing apparatus and chemical resistant personal 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.

**VII. SPILL OR LEAK PROCEDURES**

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.

**VIII. SPECIAL PROTECTION INFORMATION**

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.

**IX. TRANSPORTATION**

Proper Shipping Names: DOT: Printing Ink IMCO: Flammable Liquid  
 Hazard Classification: Not regulated by Title 49. Flammable Liquid UN1993

**X. HAZARDOUS MATERIALS IDENTIFICATION SYSTEM**

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

Health: 2  
 Flammability: 3  
 Reactivity: 0

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