

MATERIAL SAFETY DATA SHEET
Jet Coding Inks

The Leader Corporation
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Arlington, TX 76011

Division of: Squid Ink Manufacturing, Inc.
1173 Osborne Road
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Last Update: April 8, 2002
MSDS Number: 1009021
Emergency: (800) 424-9300

I. PRODUCT IDENTIFICATION

Product Name: LD-PZ4000 Black Non-Porous Ink Jet Ink (ALPINE SERIES)

Chemical Family: Ketone/Glycol Ether

II. INGREDIENTS

<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>
Diacetone Alcohol	123-42-2	30-55	4000mg/kg	50ppm	50ppm	N.A.
Glycol Ether PM	107-98-2	10-35	6600mg/kg	100ppm	100ppm	150ppm
Cyclohexanone	108-94-1	10-35	1.6mg/kg	25ppm	25ppm	NA
M-Pyro	872-50-4	<2	3.8mg/kg	NA	NA	NA
Trivalent Chromium	Proprietary	5-15	NA	NA	NA	NA

Trivalent chromium compounds have low orders of toxicity and not carcinogenic, as is hexavalent chromium compounds.

III. PHYSICAL DATA

Boiling Point:	205-342° F / 96-172° C
Vapor Pressure (mm Hg):	0.9
Vapor Density (Air=1):	4.00
Solubility in Water:	Miscible.
Evaporation Rate (n-Butyl Acetate=1):	0.12
Specific Gravity (Water=1):	0.90-0.98
Percent Volatile by Volume (%):	80-95
Appearance and odor:	Black Liquid with ketone odor

IV. FIRE AND EXPLOSION HAZARD DATA

Flash Point:	91° F / 32° C
Flammable Limits:	LEL: 1.8 UEL: 6.9
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.

V. REACTIVITY DATA

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

VI. HEALTH HAZARD DATA

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 PROCEDURESSteps 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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