

DATE PRINTED: 3/15/2001
 MSDS NO. XX2030
 Cat-L-Ink 50-201 BR Lemon Yellow (XX2030)

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

COMPANY IDENTIFICATION

ALPHA PC FAB/ENTHONE
 P.O. BOX 1900
 NEW HAVEN, CT 06508

EMERGENCY TELEPHONE NUMBERS

Transportation:
 Chemtrec, USA, 1-800-424-9300

Distributed by:

NAZDAR

8501 Hedge Lane Terrace
 Shawnee, KS 66227
 Phone: 800-677-4657
 www.nazdar.com

USA
 Phone: 1-203-934-8611
 Fax: 1-203-799-8179

International: 1-703-527-3887
 After Hours Non Transportation
 Emergency: 1-800-399-6503

PRODUCT NAME

Cat-L-Ink 50-201 BR Lemon Yellow (XX2030)

PRODUCT CODE

XX2030

PRODUCT DESCRIPTION

Epoxy resin mixture.

GENERAL USE

P.W.B. Permanent Marking Ink

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE DESCRIPTION	PERCENT	CAS#
Epoxy Resin	15.000- 40.000	25068-38-6
Bisphenol A	7.000- 13.000	80-05-7
Diethylene Glyc Eth Ether Acet	7.000- 13.000	112-15-2
Dipropyl Glyc Mono Meth Ether	5.000- 10.000	34590-94-8
Prop Gly Mono Methyl Ether Ace	5.000- 10.000	108-65-6
Lead	18.150	7439-92-1
Hexavalent Chromium	4.540	7440-47-3

DISCLOSURE:

This product is hazardous under the criteria of the USA OSHA Hazard Communication Standard 29 CFR 1910.1200.

Any ingredient claimed as a trade secret will be disclosed in accordance with 29 CFR 1910.1200 (i).

See Section 8 of this MSDS for any noted exposure limits for these compounds.

SECTION 3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Warning!
 Combustible liquid and vapor.
 May cause eye irritation.
 Harmful if swallowed.
 Lemon yellow, high viscosity liquid. Mild odor.

DATE PRINTED: 3/15/2001
MSDS NO. XX2030
Cat-L-Ink 50-201 BR Lemon Yellow (XX2030)

PAGE 2

SECTION 3. HAZARDS IDENTIFICATION
(CONTINUED)

EYE CONTACT

Moderately irritating with redness, pain or tearing. Prolonged contact may cause burns.

SKIN CONTACT

Slightly irritating. Frequent or prolonged contact may irritate and cause a rash (dermatitis). Repeated exposure may cause allergic skin reactions. Once an allergy develops, even an exposure to a very small amount can trigger an allergic reaction.

INHALATION

Slightly irritating to the eyes, nose, throat and lungs.

INGESTION

Slightly irritating to the mouth, stomach and digestive tract. May cause vomiting.

PRIMARY ROUTE OF EXPOSURE

Skin contact, skin absorption, eye, inhalation, ingestion.

CARCINOGENICITY

IARC	-	1 Chromium, 2B Lead
OSHA	-	Not Listed
NTP	-	1 Chromium

TARGET ORGANS

Ingredients may be toxic to the following organs:

skin, eyes, lungs, mucous membranes.

SECTION 4. FIRST AID MEASURES

EYE CONTACT

Flush eyes with flowing water for 10 to 15 minutes. Blink eyes frequently. Repeat flushing if burning or pain persists. Get immediate medical attention.

SKIN CONTACT

Rinse skin immediately with plenty of water. Then wash skin immediately with soap and water. Remove contaminated clothing. Do not apply lotions or creams without the advice of a physician or poison center. If problems persist get prompt medical attention.

INHALATION

Remove victim to fresh air. If breathing is difficult get immediate medical attention. If not breathing give artificial respiration and call for emergency medical assistance.

INGESTION

Do NOT induce vomiting. Give small amounts of water. Never give anything by mouth to an unconscious person. Contact a poison center or get immediate medical attention.

SECTION 5. FIRE FIGHTING MEASURES

DATE PRINTED: 3/15/2001
MSDS NO. XX2030
Cat-L-Ink 50-201 BR Lemon Yellow (XX2030)

PAGE 3

SECTION 5. FIRE FIGHTING MEASURES
(CONTINUED)

FLASH POINT
145.00 F 62.77 C

FLASH METHOD
S.C.C.

EXTINGUISHING METHOD
Carbon dioxide, foam, dry chemicals, water spray or fog.

FIRE FIGHTING PROCEDURES
Wear self contained breathing apparatus (pressure-demand MSA/NIOSH or equivalent) and full fire fighting protective gear.

FIRE AND EXPLOSION HAZARDS
Heat in excess of flashpoint, open flame, or storage with incompatible materials as listed in Stability And Reactivity.

HAZARDOUS PRODUCTS/COMBUSTION
Not established.

SECTION 6. ACCIDENTAL RELEASE MEASURES

CLEAN-UP
Remove ignition sources. Provide adequate ventilation and/or personal protective equipment (see Section 8). Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Prevent runoff to storm sewers, ditches and other pathways to soil and waterways.

SECTION 7. HANDLING AND STORAGE

HANDLING
Avoid breathing fumes. Do not splash or spill.

STORAGE
Do not store with incompatible materials. Store containers upright. Keep away from heat and flame.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS
Use local exhaust ventilation.

EYE PROTECTION
Wear safety glasses with side shields or a face shield.

SKIN PROTECTION
Wear chemical resistant rubber gloves and apron.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
 (CONTINUED)

RESPIRATORY PROTECTION

No respirator is required if ingredient exposure limits are not exceeded. An OSHA approved (29 CFR 1910.134 USA Dept. of Labor), air purifying, half-face respirator with the appropriate cartridge should be used if exposure limits are exceeded.

OTHER PROTECTION

A safety shower and eye wash station should be within reasonable distance of the work area.

EXPOSURE LIMITS/REGULATORY INFORMATION

SUBSTANCE DESCRIPTION	REG. AGENCY	PEL/TL	STEL	CEIL
Epoxy Resin	OSHA	N/D	N/D	N/D
	ACGIH	N/D	N/D	N/D
Bisphenol A	OSHA	N/D	N/D	N/D
	ACGIH	N/D	N/D	N/D
Diethylene Glyc Eth Ether Acet	OSHA	N/D	N/D	N/D
	ACGIH	N/D	N/D	N/D
Dipropyl Glyc Mono Meth Ether	OSHA	100.0000	150.0000	N/D
	ACGIH	100.0000	150.0000	N/D
Prop Gly Mono Methyl Ether Ace	OSHA	N/D	N/D	N/D
	ACGIH	N/D	N/D	N/D
Lead	OSHA	0.0500	N/D	N/D
	ACGIH	0.1500	N/D	N/D
Hexavalent Chromium	OSHA	N/D	N/D	N/D
	ACGIH	N/D	N/D	N/D

LEGEND:

EXPOSURE LIMIT DESCRIPTIONS

CEIL Ceiling Exposure Limit
 PEL/TL PEL/TLV
 STEL Short Term Exposure Limit
 N/D = Not Determined

UNIT OF MEASURE

PPM Parts Per Million (Liquid)
 MG/M3 Milligrams Per Cubic Meter (Solid)

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE & ODOR

Lemon yellow, high viscosity liquid. Mild odor.

SPECIFIC GRAVITY

1.45

DATE PRINTED: 3/15/2001
MSDS NO. XX2030
Cat-L-Ink 50-201 BR Lemon Yellow (XX2030)

PAGE 5

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES
(CONTINUED)

pH FACTOR
N/D

BOILING POINT
N/D F N/D C 320 - 370 deg. F

VOLATILE ORGANIC COMPOUNDS

VOC	-	%	34.6
VOC	-	g/L	435
VOC	-	lbs/Gal	3.63

SECTION 10. STABILITY AND REACTIVITY

INCOMPATIBILITIES
Oxidizing agents.

DECOMPOSITION
None

POLYMERIZATION
None.

CONDITIONS TO AVOID
Extreme temperatures.

STABILITY
Stable.

SECTION 11. TOXICOLOGICAL INFORMATION

EYE EFFECTS
Conjunctival irritation and redness. May cause corneal damage.

DERMAL EFFECTS
Slightly irritating. Absorption of toxic amounts through the skin is unlikely under ordinary conditions of industrial use.

INHALATION EFFECTS
The glycol ether in this product does not cause adverse effects on the male or female reproductive system.

INGESTION EFFECTS
Lead poisoning is possible if this product is chronically ingested.

ACUTE TOXICITY DATA
Enthone is not aware of any toxicity data on the specific mixture of chemical components contained in this product. Data on the individual chemical components of this mixture is available in the literature or can be obtained by contacting Dexter's Health, Safety and Environmental department at the address and telephone number listed in Section 1.

DATE PRINTED: 3/15/2001
MSDS NO. XX2030
Cat-L-Ink 50-201 BR Lemon Yellow (XX2030)

PAGE

6

SECTION 12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

Enthone has not conducted specific studies on the eco toxicity or environmental fate of this product. Commonly available data on certain ingredients indicate that acute or chronic effects could result from uncontrolled releases to soil, ground water, storm waters, or air. Appropriate measures should be taken to prevent uncontrolled releases. Prompt containment and clean-up should be performed if releases do occur (see Section 6).

SECTION 13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL

Legal disposition of wastes is the responsibility of the owner/generator of the waste. Applicable Federal, state and/or local regulations must be followed during treatment, storage, or disposal of waste containing this product.

It is recommended that the following priority hierarchy be used when selecting a disposal method: (1) Reuse or reintroduction into the process. (2) Reclamation, regeneration or recycling. (3) Burning for energy recovery, or incineration. (4) Treatment.

SECTION 14. TRANSPORT INFORMATION

DOT/IATA PROPER SHIPPING NAME
Ink Materials

DOT/IATA HAZARD CLASS
Not Regulated

DOT/IATA UN OR NA NUMBER
Not Regulated

DOT/IATA PACKING GROUP
Not Regulated

DOT/IATA LABEL
Not Regulated

DOT/IATA PLACARD
Not Regulated

SECTION 15. REGULATORY INFORMATION

Component Epoxy Resin is subject to the following

Environmental List

DATE PRINTED: 3/15/2001
MSDS NO. XX2030
Cat-L-Ink 50-201 BR Lemon Yellow (XX2030)

PAGE 7

SECTION 15. REGULATORY INFORMATION
(CONTINUED)

311/312 SARA Phy/Hea Haz (40CFR370.40)

Component Bisphenol A is subject to the following

Environmental List

311/312 SARA Phy/Hea Haz (40CFR370.40)
313 SARA toxic chem (40CFR372.65)

Component Diethylene Glyc Eth is subject to the following

Environmental List

311/312 SARA Phy/Hea Haz (40CFR370.40)
313 SARA toxic chem (40CFR372.65)

Component Dipropyl Glyc Mono M is subject to the following

Environmental List

311/312 SARA Phy/Hea Haz (40CFR370.40)

Component Prop Gly Mono Methyl is subject to the following

Environmental List

311/312 SARA Phy/Hea Haz (40CFR370.40)
313 SARA toxic chem (40CFR372.65)

Component Lead is subject to the following

Environmental List

CA California Prop 65
CERCLA CERCLA Hazardous Substance
311/312 SARA Phy/Hea Haz (40CFR370.40)
313 SARA toxic chem (40CFR372.65)

Component Hexavalent Chromium is subject to the following

Environmental List

DATE PRINTED: 3/15/2001
 MSDS NO. XX2030
 Cat-L-Ink 50-201 BR Lemon Yellow (XX2030)

PAGE 8

SECTION 15. REGULATORY INFORMATION
 (CONTINUED)

CA California Prop 65
 CERCLA CERCLA Hazardous Substance
 311/312 SARA Phy/Hea Haz (40CFR370.40)
 313 SARA toxic chem (40CFR372.65)

CALIFORNIA PROPOSITION 65

This product contains a chemical(s) known to the State of California to cause cancer and birth defects, or other reproductive harm.

SECTION 16. OTHER INFORMATION

HAZARDOUS MATERIALS ID. SYSTEM

HMIS	HAZARD RATING			
	Least	0	Slight	1
Health 3	Moderate	2	High	3
Fire 2	Extreme	4		
Reactivity 1				

WHMIS HAZARD CLASS
 B3, D2A

REVISION NO.
 003

REVISION DATE
 2/27/1996

REVISION SECTION / REASON
 Section 2 / change Chromium to Hexavalent Chromium

CREATED BY
 HSE & R&D INDUSTRY, CALIF.

APPROVED BY
 HSE - California

LIMITATIONS AND DISCLAIMER:

This MSDS relates only to the specific material identified in Section 2. In compiling this MSDS, Enthone has relied in good faith on information provided to Enthone by suppliers of the components of this material, and, in some cases, provided by independent data resources. Enthone has not independently verified such information, and, in addition, users should be aware that all materials may present unknown hazards. Use of this material in combination with other materials and/or in specific processes may render information set forth in this MSDS inaccurate or otherwise invalid.

NO WARRANTY, EXPRESS OR IMPLIED, IS MADE REGARDING THE INFORMATION FURNISHED ON THIS MSDS.

KEY TO ABBREVIATIONS:

EQ	=	Equal	LT	=	Less Than
AP	=	Approximately	GT	=	Greater Than
ND	=	Not Determined	TR	=	Trace
ND	=	No Data Available	>	=	Greater Than
HSE	=	Health, Safety and Environmental	<	=	Less Than