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Printed 5/31/2001

Product Name **XX0362**

**Cat-L-Ink 50-407R Medium Blue (XX0362) (203) 799-8179 Fax**

**Enthone  
Enthone Inc.  
P.O. Box 1900  
New Haven, CT 06508  
(203) 934-8611**

**SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION**

**FOR PRODUCT INFORMATION:**  
Phone (949) 757-0111  
Fax (949) 757-0248

**EMERGENCY PHONENUMBER:**  
Chemtrec, U.S.A.  
1-800-424-9300

**Distributed by:**  
**NAZDAR**  
8501 Hedge Lane Terrace  
Shawnee, KS 66227  
Phone: 800-677-4657  
[www.nazdar.com](http://www.nazdar.com)

**PRODUCT DESCRIPTION**  
Resin and filler mixture.

**GENERAL USE**  
Two component Cat-L-Ink

**SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS**

SUBSTANCE DESCRIPTION	PERCENT	CAS#
Polymer of Epoxy Resin (Bisphenol A)	30.0- 45.0	025036-25-3
Barium Sulfate	10.0- 25.0	7727-43-7
Diethylene Glycol Ethyl Ether Acetate	7.0- 13.0	112-15-2
Dipropylene Glycol Mono Methyl Ether	7.0- 13.0	34590-94-8
Propylene Glycol Methyl Ether Acetate	5.0- 10.0	108-65-6
Titanium Dioxide	5.0- 15.0	13463-67-7
Solvent Naptha, Petroleum	1.0- 5.0	64742-94-5

**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**

\*\*\*\*\*

**Caution!**  
Combustible liquid and vapor.  
May cause eye irritation.  
Medium blue, high viscosity liquid. Mild odor.

\*\*\*\*\*

**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 - 3 (Titanium Dioxide)  
OSHA - Not Listed  
NTP - Not Listed

**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.

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### 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. Rinse mouth with water and allow patient to drink as much water as desired. Contact a poison center or get prompt medical attention if symptoms or irritation persist.

### SECTION 5. FIRE FIGHTING MEASURES

#### FLASH POINT

150.00 F 65.55 C

#### FLASH METHOD

Setaflash Closed Cup

#### EXTINGUISHING METHOD

Use carbon dioxide, foam or dry chemical.

#### 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

Carbon monoxide, carbon dioxide.

### 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

Work should be done in an adequately ventilated area (i.e., ventilation sufficient to maintain concentrations below one half of the PEL and other relevant standards) Local exhaust ventilation is recommended when general ventilation is not sufficient to control airborne contamination.

#### EYE PROTECTION

Wear appropriate goggles, face shields or other personal protective equipment (PPE) which will be effective under the circumstances if the possibility of contact exists. A program meeting 29CFR1910.133 requirements must be followed when PPE is necessary.

#### SKIN PROTECTION

Impermeable gloves and protective clothing as necessary to prevent skin contact.

#### RESPIRATORY PROTECTION

Appropriate respirators must be used, and a program that follows 29 CFR1910.134 must be followed, when workplace hazards warrant the use of a respirator NIOSH-approved respirators must be used when respiratory protection is necessary.

#### 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
Polymer of Epoxy Resin & Bisphenol A	OSHA	N/D	N/D	N/D
	ACGIH	N/D	N/D	N/D
	ACGIH	10.000	N/D	N/D
Diethylene Glycol Ethyl Ether Acetate	OSHA	N/D	N/D	N/D
	ACGIH	N/D	N/D	N/D
	OSHA	100.0000	N/D	N/D
Dipropylene Glycol Methyl Ether	ACGIH	100.0000	150.0000	N/D
	OSHA	N/D	N/D	N/D

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Barium Sulfate	ACGIH	N/D	N/D	N/D
	OSHA	15.000**	N/D	N/D
Solvent Naptha, Petroleum	ACGIH	10.000	N/D	N/D
	OSHA	N/D	N/D	N/D
	ACGIH	N/D	N/D	N/D

**LEGEND:**

**EXPOSURE LIMIT DESCRIPTIONS**

**CELL Ceiling Exposure Limit:**

**PELTL 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**

Medium blue liquid...Mild odor.

**SPECIFIC GRAVITY**

1.33

**pH FACTOR**

N/D

**BOILING POINT**

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

**VOLATILE ORGANIC COMPOUNDS:**

VOC - % 31.1

VOC - g/L 414

VOC - lbs/Gal 3.45

**SECTION 10. STABILITY AND REACTIVITY**

**INCOMPATIBILITIES:**

Oxidizing agents.

**DECOMPOSITION**

Not established.

**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**

Minor irritation of the mucous membranes and the upper respiratory tract. Systemic toxicity is very unlikely under ordinary conditions of industrial use.

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

**INGESTION EFFECTS**

Systemic effects are unlikely unless taken in massive amounts.

**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 Enthone's Health, Safety, and Environmental Department at the address and telephone number listed in Section 1.

**SECTION 12. ECOLOGICAL INFORMATION**

**ECOTOXICOLOGICAL INFORMATION**

Enthone has not conducted specific studies on the ecotoxicity 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.

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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  
 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 Barium Sulfate is subject to the following Environmental List  
 311/312 SARA Phy/Hea Haz (40CFR370.40)  
 313 SARA toxic chem (40CFR372.65)

Component Solvent Naptha, Petroleum is subject to the following Environmental List  
 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.

**SECTION 16. OTHER INFORMATION**

**HAZARDOUS MATERIALS ID. SYSTEM**

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

WHMIS HAZARD CLASS  
 B3, D2B

REVISION NO .  
 001

REVISION DATE  
 11/13/00

REVISION SECTION / REASON  
 Section 2/ Revise chemical composition.

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Section 3 / List Titanium Dioxide as IARC Category 3 Carcinogen

Created by:  
HSE - Irvine, CA

Approved by:  
HSE - Irvine, CA

## 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
N/D - Not Determined	TR = Trace
ND - No Data Available	> = Greater Than
HSE = Health, Safety and Environmental	< = Less Than

**Polyclad Technologies**

A COOKSON ELECTRONICS COMPANY