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Product Name 50-800R 50-SERIES INK (CLEAR)

**Enthone**  
 Enthone Inc.  
 P.O. Box 1900  
 New Haven, CT 06508  
 (203) 934-8611  
 (203) 799-8179 Fax

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

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

COMPANY IDENTIFICATION

ALPHA PC FAB/ENTHONE  
 P.O. BOX 1900  
 NEW HAVEN, CT 06508  
 USA  
 Phone: 1-203-934-8611  
 Fax: 1-203-799-8179

EMERGENCY TELEPHONE NUMBERS

Transportation:  
 Chemtrec, USA, 1-800-424-9300  
 International: 1-703-527-3887  
 After Hours Non Transportation  
 Emergency: 1-800-399-6503

PRODUCT CODE

IK0369

PRODUCT DESCRIPTION

Resin and filler mixture.

GENERAL USE

Two component CAT-I-INK.

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE DESCRIPTION	PERCENT	CAS#
Epoxy Resin	30.000- 60.000	25068-38-6
Bisphenol A	10.000- 30.000	80-05-7
Diethylene Glyc Eth Ether Acet	10.000- 30.000	112-15-2
Dipropyl Glyc Mono Meth Ether	10.000- 30.000	34590-94-8
Prop Gly Mono Methyl Ether Ace	7.000- 13.000	108-65-6

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 (1).  
 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.

Clear, high viscosity liquid. Mild odor.

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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 - Not Listed

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.

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

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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 of irritation persist.

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**SECTION 5. FIRE FIGHTING MEASURES**  
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**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.

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**SECTION 6. ACCIDENTAL RELEASE MEASURES**  
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**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.

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**SECTION 7. HANDLING AND STORAGE**  
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**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.

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**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**  
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**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.

**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.

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**EXPOSURE LIMITS/REGULATORY INFORMATION**  
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SUBSTANCE DESCRIPTION	REG. AGENCY	PELTL	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

**LEGEND:**

**EXPOSURE LIMIT DESCRIPTIONS**

CEIL Ceiling Exposure Limit  
 PELTL PEL/TLV

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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  
 Clear high viscosity liquid, mild odor.  
 SPECIFIC GRAVITY  
 1.11  
 pH FACTOR  
 N/D  
 BOILING POINT  
 N/D F N/D C 320 - 370 deg. F  
 VOLATILE ORGANIC COMPOUNDS  
 VOC - % 32.7  
 VOC - g/L 411  
 VOC - lbs/Gal 3.43

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  
 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 Dexter'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 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.

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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)

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	Fire	Reactivity
2	2	1	
Least	Moderate	Extreme	
0	2	4	
Slight	High		
1	3		

WHMIS HAZARD CLASS

B3, D2B

REVISION NO.

001

REVISION DATE

7/03/1996

REVISION SECTION / REASON

Section 1 / PRODUCT NAME, GENERAL USE change

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.

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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

