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Printed 3/14/2001.

Product Name 50-300R

50-SERIES INK (GREEN)

**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**  
 XK0357

**PRODUCT DESCRIPTION**

Epoxy resin mixture.

**GENERAL USE**

Two component 50-Series Cat-L-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
Propyl Glyc Mono Meth Ether	7.000- 13.000	34590-94-8
D Gly Mono Methyl Ether Ace	5.000- 10.000	108-65-6
Cadmium Sulfide	23.580	1306-23-6
Barium Sulfate	1.000- 5.000	7727-43-7
Zinc Sulfide	1.000- 5.000	1314-98-3

**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.

Emerald green, 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**

May cause severe vomiting and diarrhea.

**PRIMARY ROUTE OF EXPOSURE**

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

**CARCINOGENICITY**

IARC - 2A Cadmium Sulfide  
 OSHA - Not Listed  
 - 2 Cadmium Sulfide

**TOXIC 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

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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

**FLASH POINT**

145.00 F 62.77 C

**FLASH METHOD**

S.C.C.

**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**

No unusual fire or explosion hazards.

**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.

**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.

SUBSTANCE DESCRIPTION	EXPOSURE LIMITS/REGULATORY INFORMATION			
	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 Ether Acet	OSHA	N/D	N/D	N/D

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	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
Cadmium Sulfide	OSHA	0.6000	N/D	N/D
	ACGIH	N/D	N/D	N/D
Barium Sulfate	OSHA	N/D	N/D	N/D
	ACGIH	10.0000	N/D	N/D
Zinc Sulfide	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**

Emerald green, high viscosity liquid. Mild odor.

**SPECIFIC GRAVITY**

1.42

**pH FACTOR**

N/D

**BOILING POINT**

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

**VOLATILE ORGANIC COMPOUNDS**

VOC - % 18.1  
 VOC - g/L 308.4  
 VOC - lbs/Gal 2.98

**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.

Emetic effects possible due to the cadmium content. Cadmium is very poorly absorbed from the gastrointestinal tract.

**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. Accidental ingestion of more than one ounce should be referred for medical evaluation.

**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

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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.

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 Cadmium Sulfide is subject to the following

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**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 Barium Sulfate is subject to the following

**Environmental List**

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

Component Zinc Sulfide is subject to the following

**Environmental List**

311/312 SARA Phy/Hea Haz (40CFR370.40)  
 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	3	Least	0	Slight	1
Flammability	2	Moderate	2	High	3
Reactivity	1	Extreme	4		

**HAZARD CLASS**

B3, D2A  
 REVISION NO.  
 002

**REVISION DATE**

10/20/1997

**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.

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