

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

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Printed 2/19/2001.

Product Name 50-508R

50-SERIES INK (RED)

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

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

**EMERGENCYPHONENUMBER:**  
 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

**PRODUCT DESCRIPTION**

Resin and filler mixture.

**GENERAL USE**

Two component 50-Series 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
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 Mono Methyl Ether Acetate	5.0- 10.0	108-65 -6
Lead	10.9	7439-92 1
Hexavalent Chromium	2.45	7440-47-3
Barium Sulfate	< 1.4	7727-43-7

**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.  
 Medium red, 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 - 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.

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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 of 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.

**MATERIAL SAFETY DATA SHEET**

PRODUCT NAME: Enthone 50-508R Red

**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.

**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. AGCY	PELTL	STEL	CELL
Polymer of Epoxy Resin & Bisphenol A	OSHA	N/D	N/D	N/D
	ACGIH	N/D	N/D	N/D
Diethylene Glycol Ethyl Ether Acetate	OSHA	N/D	N/D	N/D
	ACGIH	N/D	N/D	N/D
Dipropylene Glycol Mono Methyl Ether	OSHA	100.0000	150.0000	N/D
	ACGIH	100.0000	150.0000	N/D

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Propylene Glycol Mono Methyl Ether Acetate	OSHA	N/D	N/D	N/D
	ACGIH	N/D	N/D	N/D
Lead	OSHA	0.0500	N/D	N/D
	ACGIH	0.0500	N/D	N/D
Hexavalent Chromium	OSHA	N/D	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

**LEGEND:**

**EXPOSURE LIMIT DESCRIPTIONS**  
 CEIL 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 red, high viscosity liquid. Mild odor.

**SPECIFIC GRAVITY**  
 1.31

**pH FACTOR**  
 N/D

**BOILING POINT**  
 320 - 370 deg. F

**VOLATILE ORGANIC COMPOUNDS**  
 VOC - % 30.6  
 VOC - g/L 401  
 VOC - lbs/gal 3.35

**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**  
 Systemic effects are unlikely unless taken in massive amounts, however, 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 Enthone's Health, Safety, and Environmental Department at the address and telephone number listed in Section 1.

**SECTION 12. ECOLOGICAL INFORMATION**

**ECOTOXICOLOGICAL INFORMATION**

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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 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 Polymer of Epoxy Resin and 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 Glycol Ethyl Ether Acetate is subject to the following Environmental List  
 311/312 SARA Phy/Hea Haz (40CFR370.40)  
 313 SARA toxic chem (40CFR372.65)

Component Dipropylene Glycol Mono Methyl Ether is subject to the following Environmental List  
 311/312 SARA Phy/Hea Haz (40CFR370.40)

Component Propylene Glycol Mono Methyl Ether Acetate 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 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  
 CA California Prop 65  
 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)

**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	
Health	3	Least 0	Slight 1
Fire	2	Moderate 2	High 3

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Reactivity 1

Extreme 4

WHMIS HAZARD CLASS  
E3, D2AREVISION NO.  
005REVISION DATE  
09/20/00

## REVISION SECTION / REASON

Section 2: Replaced Epoxy Resin and Bisphenol A with Polymer.

Created by:  
HSE - Irvine, CAApproved 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-CMI, Inc 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

 **Enthone Technologies**