

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

Page: 1 / 4

Printed 2/19/2001.

Product Name 50-100R-SD

CAT-L-INK

## SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

FOR PRODUCT INFORMATION:  
(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  
Slow dry white.

## SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE DESCRIPTION	PERCENT	CAS#
Polymer of Epoxy Resin and Bisphenol A	30.0 - 45.0	025036-25-3
Diethylene Glycol Ethyl Ether Acetate	15.0 - 40.0	112-15-2
Titanium Dioxide	20.0 - 35.0	13463-67-7

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 (z). 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.  
White, 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. 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, and 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 control 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. 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.

Page: 2 / 4

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**SECTION 5. FIRE FIGHTING MEASURES**

**FLASH POINT**  
 190.00 F 87.77 C

**FLASH METHOD**  
 Setflash Closed Cup

**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**  
 Carbon monoxide, carbon dioxide.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

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	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 Glycol Ethyl Ether Acetate	OSHA	N/D	N/D	N/D
	ACGIH	N/D	N/D	N/D
Titanium Dioxide	OSHA	15.000	N/D	N/D
	ACGIH	10.000	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**

Page: 3 / 4

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White, high viscosity liquid. Mild odor.

SPECIFIC GRAVITY  
1.44

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 = % 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 act. Systemic toxicity is very unlikely under ordinary conditions 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 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  
Not Regulated  
DOT/IATA HAZARD CLASS  
Not Regulated  
DOT/IATA UN OR NA NUMBER

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Page: 4 / 4

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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 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)

**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**  
 E3, D2B

**REVISION NO.**  
 2

**REVISION DATE**  
 08/25/00

**REVISION SECTION / REASON**  
 Section 1 / Hazardous Ingredients List update.

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