



Union Ink Company  
453 Broad Avenue  
Ridgefield, NJ 07657

## MATERIAL SAFETY DATA SHEET

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**MANUFACTURING LOCATION:**

Union Ink Company  
453 Broad Avenue  
Ridgefield, NJ 07657  
201-945-5766

**HAZARDOUS MATERIAL INFORMATION SYSTEM:**

<b>Health:</b>	<b>1</b>
<b>Flammability:</b>	<b>0</b>
<b>Reactivity:</b>	<b>0</b>
<b>Personal Protection:</b>	<b>B</b>

**IN CASE OF EMERGENCY CONTACT:** 201-945-5766

**PRODUCT NAME:** Union EF Inks  
**CHEMICAL FAMILY:** Polyvinyl Chloride Dispersion, Non Phthalate  
**PRODUCT CODE:** PATE series, all colors  
**EXCEPTION:** PATE-M120 (see individual MSDS)

**DATE REVISED:** 2/5/2013  
**SUPERSEDES:** 8/31/2011  
**VERSION:** 5

**PREPARED BY:** Kimberly C. Leitch (704) 553-0046 ext. 155

### 2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** Low hazard for normal industrial use.

**EYE CONTACT:** Low hazard for normal industrial use; however, any material that contacts the eye may cause mechanical irritation.

**SKIN CONTACT:** Low hazard for normal industrial use.

**INGESTION:** Not a likely route of exposure. Low toxicity.

**INHALATION:** Not a problem at room temperature, but fumes formed at elevated temperatures can be irritating.

### 3. INGREDIENTS AND HAZARDS

INGREDIENTS	CAS #	% BY WEIGHT	TLV	PEL
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No hazardous ingredients as defined by OSHA 29 CFR 1910.1200  
While these products are not classified as hazardous under OSHA regulations, this MSDS contains valuable information important to the safe handling and proper use of these products. This MSDS should be available for employees and other users or handlers of these products

#### 4. FIRST AID MEASURES

**EYES:** Flush with water for 15 minutes. If irritation develops, get medical attention.

**SKIN:** Wash with soap and water.

**INHALATION:** Remove to fresh air for relief.

**INGESTION:** None necessary for small quantities.

#### 5. FIRE FIGHTING MEASURES

**FLASH POINT (° F):** >400 (COC)

**OSHA FLAMMABILITY CLASSIFICATION:** None

**EXTINGUISHING MEDIA:** Foam, CO<sub>2</sub>, Dry Chemical, or water mist.

**SPECIAL FIRE FIGHTING PROCEDURES:** Wear self contained breathing apparatus.

**EXPLOSION LIMITS IN AIR - LOWER (%):** Unknown      **UPPER (%):** Unknown

**AUTO IGNITION TEMP (° F):** Unknown

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** None

#### 6. ACCIDENTAL RELEASE MEASURES

**ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:** Dike to contain spill. Recover free product. Collect remaining product with absorbent materials.

#### 7. HANDLING AND STORAGE

**HANDLING:** Wash thoroughly after handling.

**STORAGE:** Do not store near heat or flame. Material can gel with long exposure to elevated temperatures (Above 95° F.).

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Use with adequate ventilation.

**RESPIRATORY PROTECTION EQUIPMENT:** Not necessary at room temperature.

**PROTECTIVE GLOVES:** Recommended

**EYE AND FACE PROTECTION:** Safety glasses recommended.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION (CONTINUED)

**OTHER PROTECTIVE EQUIPMENT:** Usually not required.

**VENTILATION:** Local exhaust as needed near processing equipment.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Boiling Range/Point:** Solidifies before boiling.  
**Vapor Pressure:** Unknown  
**Vapor Density (AIR=1):** >1  
**Freezing Point:** Not applicable  
**Melting Point:** Not applicable  
**Physical State:** Thick Liquid  
**Color:** Various  
**% Volatile by Weight:** <4%  
**VOC (g/l):** <50g/l  
**Evaporation Rate (Butyl Acetate=1):** Unknown  
**Specific Gravity @ 25° C:** Dependent on product  
**Weight per gallon:** Dependent on product

## 10. STABILITY AND REACTIVITY

**STABILITY:** Material is stable

**HAZARDOUS POLYMERIZATION:** Will not occur.

**HAZARDOUS THERMAL DECOMPOSITION/COMBUSTION PRODUCTS:** CO, CO<sub>2</sub>, HCl

**INCOMPATIBILITY (MATERIALS TO AVOID):** None

**CONDITIONS TO AVOID:** Storage temperatures above 95° F.

## 11. TOXICOLOGICAL INFORMATION

**CARCINOGENICITY:** These products are not listed as carcinogens by NTP, IARC, EPA, or OSHA.  
These products are not listed as reproductive or developmental toxins by EPA.

**ACUTE ORAL LD50:** Not available      **ACUTE DERMAL LD50:** Not available

**ACUTE INHALATION LC50:** Not available

## 12. ECOLOGICAL INFORMATION

**ECOTOXICOLOGICAL INFORMATION:** Unknown

**CHEMICAL FATE INFORMATION:** Unknown

### 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Small amounts may be fused in a vented oven and disposed of as a solid. Disposed material is not a listed RCRA Hazardous waste. Dispose of materials in accordance with the applicable Local, State, and Federal regulations.

### 14. TRANSPORT INFORMATION

**DOT SHIPPING NAME:** Not regulated  
**DOT HAZARD CLASS:** None  
**UN/NA NUMBER:** None  
**DOT PACKING GROUP:** None  
**AIR FREIGHT TRANSPORTATION:** Not regulated  
**OCEAN TRANSPORTATION:** Not regulated

### 15. REGULATORY INFORMATION

**TSCA STATUS:** All components of these products are on the US TSCA Inventory.

**CALIFORNIA PROPOSITION 65:** These products do not contain chemicals known to the state of California to cause cancer or birth defects; however, routine analysis for all listed materials is not conducted.

**SARA 302 EXTREMELY HAZARDOUS SUBSTANCES LIST:** None

**SARA (311,312) HAZARD CLASS:** None

**SARA SECTION 313 TOXIC CHEMICALS:** PATE M220, M222, M222Y, M224, P875 and P876C contain: <15% Copper  
PATE-M220, M222, M222Y, and M224 contain: <6% Zinc  
PATE-3206 contains 10% Barium compound, 2.5% as Ba.  
PATE-P347C contains <4% Zinc compound

**AUSTRALIAN INVENTORY CHEMICAL SUBSTANCES:** Unknown at this time.

**CANADIAN INVENTORY:** None

**EINECS REGULATIONS:** Unknown at this time

**JAPAN:** Unknown at this time

**KOREAN CHEMICAL INVENTORY:** Unknown at this time

### 16. OTHER INFORMATION

**DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES:**  
While Union Ink believes that the data contained herein are factual, and the opinions expressed are those of qualified experts regarding the results of the tests conducted, the data are not to be taken as a warranty or representation for which Union Ink assumes legal responsibility. Since the use of this information and these opinions and the use of the product are not within the control of Union Ink, it is the user's obligation to determine the conditions of safe use of the product.