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**MATERIAL SAFETY DATA SHEET****for U.S.A. and European Union**

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**1. PRODUCT AND COMPANY IDENTIFICATION**

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Product Name: **FastCOLOR Pretreatment for Textile PIGMENT INK**

Product Use: Textile pretreatment for Ink-Jet Printing Ink

## Company Identification

## MANUFACTURER/DISTRIBUTOR

U.S. Graphic Arts, Inc. dba U.S. Screen Print &amp; Inkjet Technology

1901 E. 5<sup>th</sup> Street

Tempe, Arizona 85281 USA

## PHONE NUMBERS

1-480-929 -0640 MST 8:30am-5:00pm M-F USA

Product, Safety, Health and

Environmental Information

CHEMTREC: 1-800-424-9300 (24 hours, USA)

Transport Emergency

International calls 1-703-527-3887 (collect)

Medical Emergency

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**2. COMPOSITION/INFORMATION ON INGREDIENTS**

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## Components (% by weight)

| Material      | CAS Number | %     |
|---------------|------------|-------|
| Water         | 7732-18-5  | 75-85 |
| *Trade Secret | **         | 15-25 |

## Components (Remarks)

\*\*The specific identity for each component not identified by a CAS Registry Number is withheld as a trade secret.

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### 3. HAZARDS IDENTIFICATION

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Routes of Entry: **Inhalation:** Yes **Skin:** Yes **Ingestion:** Yes

Effects of Overexposure: Low hazard for usual industrial handling

Chronic & Acute Effects of overexposure: None known

#### Potential Health Effects

*European Union* - This preparation is not classified as dangerous according to directive 1999/45/EC.

THIS PRODUCT CAN BE USED SAFELY WHEN USED AS DIRECTED AND WHEN APPLICABLE SAFETY PRECAUTIONS ARE FOLLOWED.

#### POTENTIAL HEALTH EFFECTS FROM PRODUCT

Under the condition employed, skin contact is quite frequent. Even so, very rarely, a rash may be seen through prolonged contact or on people with sensitive skin.

Ingestion is not expected to be a significant route of exposure for this product under normal use conditions.

There is no toxicity data available for this specific formulation. Any potential hazards are presumed to be due to exposure to the components.

#### ADDITIONAL HEALTH EFFECTS

Since this mixture has not been tested as a whole to determine the hazards by all routes of exposure, information is provided for each hazardous component of the mixture to meet requirements of OSHA's Hazard Communication Standard (29 CFR 1910.1200). The effects noted occur from exposure to the pure component unless otherwise noted.

#### INFORMATION FOR COMPONENTS

##### TRADE SECRET

Not a hazardous ingredient per 29 CFR Part 1910

#### Carcinogenicity Information

None of the components present in this material at concentrations equal to or greater than 0.1 % are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

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## 4. FIRST AID MEASURES

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### First Aid

#### INHALATION

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek Medical Assistance immediately.

#### SKIN CONTACT

In case of contact, immediately remove contaminated clothing and flush skin with plenty of soap and water for at least 15 minutes. Consult a physician. Wash contaminated clothing before reuse.

#### EYE CONTACT

In case of contact, immediately flush eyes with plenty of clean warm water for at least 15 minutes. Call a physician.

#### INGESTION

Ingestion is not an expected route of exposure during normal use of the product. If ingested, do not give an emetic unless directed by a physician. Seek Medical Assistance immediately.

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## 5. FIRE FIGHTING MEASURES

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### Flammable Properties

This material is noncombustible.

This material is compatible with all extinguishing media.

Product is a nonflammable water-based solution.

### Extinguishing Media

Use media appropriate for surrounding material.

### Fire Fighting Instructions

This product is not flammable. Use normal firefighting procedures for the area.

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## 6. ACCIDENTAL RELEASE MEASURES

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### Safeguards (Personnel)

Wear appropriate Personal Protective Equipment, including a NIOSH (or equivalent) approved respirator. Try to sweep or vacuum the material into containers for reuse, if possible. If the material is contaminated, collect it in appropriate containers for disposal. **This material is non-toxic.**

### Initial Containment

Dike spill.

### Spill Clean Up

Soak up with absorbent material.

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## 7. HANDLING AND STORAGE

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### Handling (Personnel)

Avoid contact with eyes, skin, or clothing.

### Storage

Keep containers tightly closed and away from high temperatures and open flame. Avoid storage in temperatures below 40°F or above 110°F.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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### Personal Protective Equipment

#### EYE/FACE PROTECTION

Wear safety glasses. Wear coverall chemical splash goggles and face shield when the possibility exists for eye and face contact due to splashing or spraying of the material.

#### RESPIRATORS

Respirators are not needed for normal use.

#### PROTECTIVE CLOTHING

If there is potential for significant dermal contact wear appropriate impervious clothing and gloves.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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## Physical Data

|                     |                      |
|---------------------|----------------------|
| Form                | : Liquid             |
| Color               | : Clear Brown Liquid |
| Odor                | : Odorless           |
| Solubility in Water | : Miscible           |
| pH                  | : 7.3~9.3            |

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|                  |               |
|------------------|---------------|
| Specific Gravity | : 1.135~1.195 |
|------------------|---------------|

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**10. STABILITY AND REACTIVITY**

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## Chemical Stability

Stable at normal temperatures and storage conditions.

## Incompatibility with Other Materials

Concentrated acids and bases

## Decomposition

Thermal decomposition may produce oxides of carbon

## Polymerization

Polymerization will not occur.

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**11. TOXICOLOGICAL INFORMATION**

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## Animal Data

None available

## Acute Data

When tested for primary irritation potential, this material caused mild eye irritation. RTECS reports Oral TDLo= 428 mg/kg in man 351 mg/kg in women.

**12. ECOLOGICAL INFORMATION**

Ecotoxicological Information

No data available for product.

**13. DISPOSAL CONSIDERATIONS**

Waste Disposal

Classification: Disposed material is not a hazardous waste.  
Disposal Method: Landfill according in accordance with applicable Federal, State/Provincial, and Local laws and regulations. Disposed material is not a RCRA

Hazardous waste.

**14. TRANSPORTATION INFORMATION**

(Not meant to be all inclusive)

DOT (Domestic Surface, U.S.A.) : Not regulated

ICAO/IATA (Air) : Not regulated

IMO/IMDG (Ocean) : Not regulated

**15. REGULATORY INFORMATION**

(Not meant to be all inclusive - selected regulations represented)

**U.S. Regulations**

Federal Regulations

TSCA Inventory Status - All components of this product are listed, or exempt from listing, on the TSCA 8(b) chemical inventory.

State Regulations

State Right-To-Know

WARNING - SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM (California Proposition 65)

None

**European Union Regulations**

EU Inventory Status - All components of this product are listed, or are exempt from listing, on the EINECS chemical inventory.

Transport Information - This product is not classified as dangerous within the meaning of transport regulations.

Labeling - This product does not need to be labeled in accordance with EC-Directive 1999/45/EC.

**Switzerland**

Switzerland VOC Regulations (Ordinance 814.018, *Verordnung über die Lenkungsabgabe auf flüchtigen organischen Verbindungen*, as of 28 December 2000)

This product is exempt from Swiss VOC regulations.

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**16. OTHER INFORMATION**

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HMIS<sup>®</sup> Rating

|              |     |
|--------------|-----|
| Health       | : 1 |
| Flammability | : 1 |
| Reactivity   | : 0 |

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

## MSDS Contact Information

Product Stewardship Director  
U.S. Graphic Arts, Inc., dba U.S. Screen Print & Inkjet Technology  
1901 E. 5<sup>th</sup> Street  
Tempe, Arizona 85281 USA  
Phone 1-480-929-0640 USA  
Fax 1-480-929-0766 USA

## Revision History

September 26, 2007

New MSDS

|     |            |   |
|-----|------------|---|
| Key | ACG I H    | American Conference of Governmental Industrial Hygienists                       |
|     | AEL        | Acceptable Exposure Limit   |
|     | Cmpds      | Compounds   |
|     | DOT        | Department of Transportation  |
|     | ET         | (U.S.A.) Eastern Time (U.S.A.)  |
|     | EU         | European Union  |
|     | HMIS®      | Hazardous Material Information System (National Paint and Coatings Association) |
|     | IARC       | International Agency for Research on Cancer                                     |
|     | IATA       | International Air Transport Association   |
|     | ICAO       | International Civil Aviation Organization                                       |
|     | IEL        | Indicative Exposure Limit (EU Directive 2000/39/EC)                             |
|     | IMDG       | International Maritime Dangerous Goods  |
|     | IMO        | International Maritime Organization   |
|     | LEL or LFL | Lower Explosive Limit or Lower Flammable Limit                                  |
|     | M-F        | Monday through Friday   |
|     | NA         | North America   |
|     | NIOSH      | National Institute of Occupational Safety and Health (U.S.A.)                   |
|     | NOHSC      | National Occupational Health and Safety Commission (Worksafe Australia)         |
|     | NOS        | Not Otherwise Specified   |
|     | NTP        | National Toxicology Program (U.S.A.)  |
|     | OEL        | Occupational Exposure Limit   |
|     | OSHA       | Occupational Safety and Health Administration (U.S.A.)                          |
|     | PEL        | Permissible Exposure Limit  |
|     | RTECS      | Registry of Toxic Effects of Chemical Substances (NIOSH)                        |
|     | STEL       | Short Term Exposure Limit   |
|     | TLV        | Threshold Limit Value   |
|     | TSCA       | Toxic Substances Control Act (U.S.A)  |
|     | TWA        | Time-weighted Average   |
|     | UEL or UFL | Upper Explosive Limit or Upper Flammable Limit                                  |
|     | U.S.A.     | United States of America  |
|     | VOC        | Volatile Organic Compound(s)  |
|     | WEEL       | Workplace Environmental Exposure Level  |

THE INFORMATION ON THIS SAFETY DATA SHEET IS BELIEVED TO BE ACCURATE AND IT IS THE BEST INFORMATION AVAILABLE TO U.S. Graphic Arts, Inc. THIS DOCUMENT IS INTENDED ONLY AS A GUIDE TO THE APPROPRIATE PRECAUTIONS FOR HANDLING A CHEMICAL BY A PERSON TRAINED IN CHEMICAL HANDLING. U.S. Graphic Arts, Inc MAKES NO WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED WITH RESPECT TO SUCH INFORMATION OR THE PRODUCT TO WHICH IT RELATES, AND WE ASSUME NO LIABILITY RESULTING FROM THE USE OR HANDLING OF THE PRODUCT TO WHICH THIS SAFETY DATA SHEET RELATES. USERS AND HANDLERS OF THIS PRODUCT SHOULD MAKE THEIR OWN INVESTIGATIONS TO DETERMINE THE SUITABILITY OF THE INFORMATION PROVIDED HEREIN FOR THEIR OWN PURPOSES.

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