
MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: **FastINK™ Textile PIGMENT PRETREATMENT SOLUTION**

Product Use: Ink-Jet Printing Ink

Company Identification

MANUFACTURER/DISTRIBUTOR

U.S. Graphic Arts, Inc. dba U.S. Screen Print & Inkjet Technology
1901 E. 5th Street
Tempe, Arizona 85281 USA

PHONE NUMBERS

Product, Safety, Health and
Environmental Information 1-480-929-0640 MST 8:30am-5:00pm M-F USA
Transport Emergency
Medical Emergency CHEMTREC: 1-800-424-9300 (24 hours, USA)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components (% by weight)

Material	CAS Number	%
Water	7732-18-5	75-85
*Inorganic Nitrate	**	15-25

*Disclosure as a toxic chemical is required under Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

Components (Remarks)

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

3. HAZARDS IDENTIFICATION

Potential Health Effects

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

POTENTIAL HEALTH EFFECTS FROM PRODUCT

Potential routes of overexposure to this product are skin contact, eye contact and inhalation of vapor.

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

INORGANIC NITRATE

Eye Contact - May cause eye corrosion with corneal or conjunctival ulceration.

Skin Contact - May cause skin irritation with discomfort or rash.

Inhalation - May cause irritation of the upper respiratory passages with coughing and discomfort.

Ingestion - Ingestion may cause methemoglobinemia (reduced oxygen carrying capacity of the blood) with headache, weakness or cyanosis (bluish discoloration of the skin) possibly progressing to dizziness, incoordination, shortness of breath, increased pulse rate and loss of consciousness.

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.

4. FIRST AID MEASURES

First Aid

INHALATION

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

SKIN CONTACT

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

EYE CONTACT

In case of contact, immediately flush eyes with plenty of 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, consult a physician.

5. FIRE FIGHTING MEASURES

Flammable Properties

Flash Point	: >93.3 C (>200 F)
Method	: Closed Cup
Approximate Flammable Limits in Air, % by Volume	
LEL	: Not Available
UEL	: Not Available
Autoignition Temperature	: Not Available

Product is a nonflammable water-based solution.

Hazardous combustion products (gases/vapors) produced in fire can include carbon monoxide, carbon dioxide, nitrogen oxides and smoke.

Extinguishing Media

Use media appropriate for surrounding material.

Fire Fighting Instructions

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

6. ACCIDENTAL RELEASE MEASURES

Safeguards (Personnel)

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Initial Containment

Dike spill.

Spill Clean Up

Soak up with absorbent material.

7. HANDLING AND STORAGE

Handling (Personnel)

Avoid contact with eyes, skin, or clothing.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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.

Applicable Exposure Limits and Exposure Data

WATER	
PEL (OSHA)	: None Established
TLV (ACGIH)	: None Established
AEL * (USSPIT)	: None Established
LD ₅₀ (rat, oral)	: >90 mL/kg (RTECS) :
LC ₅₀ (rat, inhalation/4 hr.)	No data available

INORGANIC NITRATE

PEL (OSHA)	: None Established
TLV (ACGIH)	: None Established
AEL * (USSPIT)	: 5 mg/m ³ , 8 Hr. TWA, total dust:
LD ₅₀ (rat, oral)	3,900 mg/kg (supplier) : No data
LC ₅₀ (rat, inhalation/4 hr.)	available

* AEL is U.S. Screen Print & Inkjet Technology (USSPIT) Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Data

Form	: Liquid
Color	: Clear
Odor	: Odorless
Solubility in Water	: Miscible
pH	: About 7
Specific Gravity	: About 1

Other Information

Flash Point	: >93.3 C (>200 F)
Method	: Closed Cup
Approximate Flammable Limits in Air, % by Volume	
LEL	: Not Available
UEL	: Not Available
Autoignition Temperature	: Not Available

10. STABILITY AND REACTIVITY

Chemical Stability

Stable at normal temperatures and storage conditions.

Incompatibility with Other Materials

None reasonably foreseeable.

Decomposition

Decomposition does not occur during normal use.

Polymerization

Polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Animal Data

No data available for product.

12. ECOLOGICAL INFORMATION

Ecotoxicological Information

No data available for product.

13. DISPOSAL CONSIDERATIONS

Waste Disposal

DO NOT DISCARD INTO ANY SEWERS, INTO ANY BODY OF WATER, OR ON THE GROUND. Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local laws and regulations.

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.

16. OTHER INFORMATION

HMIS® Rating

Health	: 2
Flammability	: 0
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

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Revision History

October 1, 2005

New MSDS

Key ACG I H	American Conference of Governmental Industrial Hygienists
AEL	Acceptable Exposure Limit (USSPIT)
Cmpds	Compounds
DOT	Department of Transportation (U.S.A.)
ET EU	Eastern Time (U.S.A.)
HMIS®	European Union
IARC	Hazardous Material Information System (National Paint and Coatings Association)
IATA	International Agency for Research on Cancer
ICAO	International Air Transport Association
IEL	International Civil Aviation Organization
IMDG	Indicative Exposure Limit (EU Directive 2000/39/EC)
IMO	International Maritime Dangerous Goods
LEL or LFL	International Maritime Organization
M-F	Lower Explosive Limit or Lower Flammable Limit
NA	Monday through Friday
NIOSH	North America
NOHSC	National Institute of Occupational Safety and Health (U.S.A.) 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

End of MSDS