MATERIAL SAFETY DATA SHEET

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1. CHEMICAL PRODUCT IDENTIFICATION:

PRODUCT NAME.....: HD Fixer Part A
PRODUCT CODE.....: LX10N000 L1XPP000
CHEMICAL FAMILY....: Aqueous Photochemical Solution
BUSINESS GROUP.....: Technical Imaging Systems
AGFA MSDS NUMBER....: 671ta.002

2. COMPOSITION/INFORMATION ON INGREDIENTS:

INGREDIENT NAME

/CAS NUMBER	EXPOSURE	LIMITS	CONCENTRATION	(응)

**** HAZARDOUS INGREDIENTS *****

Ammonium Thiosulfate 7783-18-8 OSHA PEL : Not Established 40-45 % ACGIH TLV: Not Established Sodium Sulfite 7757-83-7 OSHA PEL : Not Established 1- 5 % ACGIH TLV: Not Established

3. HAZARDS IDENTIFICATION:

This product as a whole has not been tested. This hazard information is for the individual ingredients.

POTENTIAL HEALTH EFFECTS:

ROUTES OF ENTRY...... Seye and skin contact, inhalation of vapors or mists, accidental ingestion.

HUMAN EFFECTS AND SYMPTOMS OF OVEREXPOSURE:

- ACUTE INHALATION.....: Inhalation of ammonium thiosulfate and acetic acid may be irritating to the respiratory tract with symptoms of sore throat, coughing, and runny nose. Sulfites may cause an allergic reaction in some asthmatics and sulfite sensitive individuals. Possible symptoms include bronchoconstriction, sweating, flushing, hives, rapid heart rate, decreased blood pressure, and anaphylaxis.
- ACUTE SKIN CONTACT......: Ammonium thiosulfate and sodium sulfite may be irritating to the skin with symptoms of reddening and itching. Abraded skin and moist skin may intensify these effects.

CHRONIC SKIN CONTACT.....: Repeated or prolonged contact to sulfites may cause an allergic skin reaction in sensitive individuals.

ACUTE EYE CONTACT......: Ammonium thiosulfate and sodium sulfite may be

irritating to the eyes with symptoms of reddening, tearing, and stinging. ACUTE INGESTION....... Ingestion of sodium sulfite and ammonium thiosulfate may cause gastrointestinal irritation.

CARCINOGENICITY.....: The components of this product are not listed by NTP, IARC or regulated as a carcinogen by OSHA.

MEDICAL CONDITIONS

AGGRAVATED BY EXPOSURE.....: Persons with preexisting eye, skin or respiratory tract disorders may be more susceptible to the effects of this product.

FIRST AID MEASURES: 4.

FIRST AID FOR EYES.....: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

FIRST AID FOR SKIN.....: Flush affected areas promptly with water and soap for 15 minutes. Remove contaminated clothing. In case of continued irritation consult physician.

FIRST AID FOR INHALATION: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

FIRST AID FOR INGESTION .: If swallowed, rinse mouth with plenty of water, call a Physician.

5. FIRE FIGHTING MEASURES:

FLASH POINT.....: Noncombustible

EXTINGUISHING MEDIA...... Material is not combustible. Use extinguishing media suitable for other combustible materials in the area.

SPECIAL FIRE FIGHTING PROCEDURES: Evacuate personnel to a safe area. Keep personnel removed and upwind of fire. Wear self-contained breathing apparatus.

UNUSUAL FIRE / EXPLOSION HAZARDS: When heated to decomposition emission of toxic fumes of SO2 is possible.

6. ACCIDENTAL RELEASE MEASURES:

SPILL OR LEAK PROCEDURES...... Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean up. Dike Spill. Prevent liquid from entering sewers, waterways, or low areas. Soak up with sawdust, sand, oil dry or other absorbent material. For disposal see section 13.

7. HANDLING AND STORAGE:

STORAGE TEMPERATURE(MIN/MAX): Store between 40 F (4.4 C) and 80 F (26 C). Preferred storage is at 68 F (20 C).

SHELF LIFE..... N.A.

SPECIAL SENSITIVITY.....: Keep from freezing.

HANDLING/STORAGE PRECAUTIONS: Avoid eye and skin contact, and store in well-ventilated area. Keep container tightly closed. Do not store with incompatible materials. Do not store or consume food, drink or tobacco in area where they may become contaminated with this material. For incompatibles see section 10.

OTHER NOTES..... Keep out of the reach of children.

PERSONAL PROTECTION: 8.

PROTECTIVE CLOTHING REQUIREMENTS ...: Splash protection required for eyes, e.g., eye glasses with side shields or goggles. For skin protection use chemical resistant gloves and aprons, e.g. made of neoprene, rubber or vinyl.

VENTILATION REQUIREMENTS.....: Use sufficient general room ventilation and/or local exhaust to maintain airborne levels of vapors below applicable exposure limits (see Section 2).

RESPIRATOR REQUIREMENTS.....: Under normal conditions of use, respirator protection is not required. If respirators are used, institute a program in accordance with OSHA standard 29CFR1010.134.

ADDITIONAL PROTECTIVE MEASURES.....: Emergency showers and eye wash stations should be made available. Educate and train employees in the safe use and handling of this product.

9. PHYSICAL AND CHEMICAL PROPERTIES:

10. STABILITY AND REACTIVITY:

STABILITY...... This is a stable material. HAZARDOUS POLYMERIZATION...: Will not occur. INCOMPATIBILITIES...... Strong alkali, strong acids INSTABILITY CONDITIONS.....: None Known DECOMPOSITION PRODUCTS.....: Oxides of sulfur, CO2, carbon monoxide, ammonia

11. TOXICOLOGICAL INFORMATION:

NO TOXICOLOLICAL INFORMATION AVAILABLE

12. ECOLOGICAL INFORMATION:

NO ECOLOGICAL INFORMATION AVAILABLE

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD.....: Recover nonusable free liquid and/or contaminated water, and dispose of in an approved and permitted treatment system. Remove nonusable solid material and/or contaminated soil, for disposal in an approved and permitted landfill. Discharge to sewer may require approval of permitting authority and may require pretreatment.

14. TRANSPORTATION INFORMATION:

TECHNICAL SHIPPING NAME.....: Not Applicable PRODUCT LABEL..... HD Fixer Part A

DOT (DOMESTIC SURFACE) HAZARD CLASS OR DIVISION: Non-Regulated

IMO / IMDG CODE (OCEAN)

HAZARD CLASS DIVISION NUMBER...: Non-Regulated

ICAO / IATA (AIR)

HAZARD CLASS DIVISION NUMBER...: Non-Regulated

15. REGULATORY INFORMATION:

OSHA STATUS:	This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.		
TSCA STATUS:	On TSCA Inventory		
CERCLA REPORTABLE QUANTITY:	None		
SARA TITLE III:			
SECTION 302 EXTREMELY			
HAZARDOUS SUBSTANCES:	None		
SECTION 311/312			
HAZARD CATEGORIES:	Immediate Health Hazard; Delayed Health Hazard		
SECTION 313			
TOXIC CHEMICALS:	None		
RCRA STATUS:	If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)		

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

COMPONENT NAME /CAS NUMBER	CONCENTRATION	STATE CODE
Ammonium Thiosulfate		
7783-18-8	40-45 %	PA1, PA4, MA, NJ1
Water		
7732-18-5	45-50 %	PA3, NJ4
Sodium Sulfite		
7757-83-7	1-5 %	PA3, NJ4
Boric Acid		
10043-35-3	1-5 %	PA3, NJ4

MA = Massachusetts Hazardous Substance List NJ1 = New Jersey Hazardous Substance List NJ3 = New Jersey Special Health Hazardous Substance List NJ4 = New Jersey Other - included in 5 predominant ingredients > 1% PA1 = Pennsylvania Hazardous Substance List PA3 = Pennsylvania Non-hazardous present at 3% or greater. PA4 = Pennsylvania Environmental Hazardous Substance List.

16. OTHER INFORMATION:

HMIS RATINGS: Health Flammability Reactivity Personal Prot 2 0 0 B 0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe B=Safety Glasses, Gloves

AGFA's method of hazard communication is comprised of Product Labels and Material Safety Data Sheets. HMIS ratings are provided by AGFA as a customer service.

REASON FOR ISSUE.....: Comp. change - revise sections 3 and 11. PREPARED BY....: Shannon Simpson APPROVED BY....: Mike Patrick APPROVAL DATE....: 08/18/2003 SUPERSEDES DATE....: 01/29/2003 MSDS NUMBER....: 39870 This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of AGFA Corporation. The data on this sheet relates only to the specific material designated herein. AGFA Corporation assumes no legal responsibility for use or reliance upon these data.

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