MATERIAL SAFETY DATA SHEET

AGFA CORPORATION 100 Challenger Road Ridgefield Park, NJ 07660

TRANSPORTATION EMERGENCY NON-TRANSPORTATION CALL CHEMTREC: 800-424-9300 HEALTH EMERGENCY PHONE..: (303) 623-5716 INTERNATIONAL: 703-527-3887 AGFA INFORMATION PHONE..: (201) 440-2500 CHEMICAL PRODUCT IDENTIFICATION: PRODUCT NAME..... Neutol Plus PRODUCT CODE.....: ABC Code: 5A71M000 CHEMICAL FAMILY....: Aqueous Alkaline Photochemical Solution BUSINESS GROUP.....: Photo Imaging Systems AGFA MSDS NUMBER....: 549 COMPOSITION/INFORMATION ON INGREDIENTS: INGREDIENT NAME EXPOSURE LIMITS /CAS NUMBER CONCENTRATION (%) **** HAZARDOUS INGREDIENTS Potassium metabisulfite 16731-55-8 OSHA: Not Established 1-5 % ACGIH: Not Established Potassium Bromide 7758-02-3 OSHA: Not Established 1-5 % ACGIH: Not Established Potassium Carbonate 584-08-7 OSHA: Not Established 10-20 % ACGIH: Not Established Diethylene Glycol 111-46-6 OSHA: Not Established 1-5 % ACGIH: Not Established

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2. COMPOSITION/INFORMATION ON INGREDIENTS (Continued)

INGREDIENT NAME

/CAS NUMBER EXPOSURE LIMITS CONCENTRATION (%) ______

Trisodium Nitrilotriacetate

5064-31-3 OSHA: Not Established Less than 1 %

ACGIH: Not Established

HAZARDS IDENTIFICATION:

EMERGENCY OVERVIEW

* WARNING! Color: Colorless to yellowish; Form: Liquid;

* Clear; Odor: Odorless; May cause respiratory tract * irritation; May cause allergic respiratory reaction; Causes

* skin irritation; May cause allergic skin reaction; Causes

* eye irritation.

POTENTIAL HEALTH EFFECTS:

ROUTE(S) OF ENTRY..... : Eye Contact; Skin Contact; Inhalation; Ingestion

HUMAN EFFECTS AND SYMPTOMS OF OVEREXPOSURE:

- ACUTE INHALATION...... Potassium carbonate, potassium metabisulfite and potassium bromide may cause irritation with symptoms of coughing, sore throat, and runny nose. Inhalation of diethylene glycol vapors is unlikely due to its low vapor pressure. However, if misted or handled at elevated temperatures, high concentrations of diethylene glycol can produce drowsiness, headache, dizziness, and nausea. Potassium metabisulfite 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.
- CHRONIC INHALATION.....: Prolonged inhalation of potassium bromide may cause skin eruptions.
- ACUTE SKIN CONTACT.....: Potassium carbonate, potassium metabisulfite and potassium bromide can be irritating to the skin with symptoms of reddening and itching. Prolonged skin contact with diethylene glycol may cause defatting of the skin which may result in irritation with symptoms of itching, drying and reddening.
- CHRONIC SKIN CONTACT..... Repeated or prolonged contact to sulfites may cause an allergic skin reaction in sensitive individuals.
- ACUTE EYE CONTACT..... Potassium carbonate, potassium metabisulfite and potassium bromide can be irritating to the eyes with symptoms of reddening, tearing, and stinging.
- ACUTE INGESTION.....: Ingestion of this product may cause gastrointestinal irritation. Ingestion of diethylene glycol can result in behavioral change, drowsiness, kidney and liver failure, and coma. The oral toxicity of diethylene glycol is greater in humans than in laboratory

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3. HAZARDS IDENTIFICATION (Continued)

animals. The estimated single lethal dose-oral-human is 1.0 ml/kg.

CARCINOGENICITY....: The carcinogenicity classification for nitrilotriacetic acid/nitrilotriacetic acid sodium salts is based on findings of urinary tract tumors in rats and mice in chronic feeding studies

NTP.....: This product contains Trisodium

Nitrilotriacetate. Nitrilotriacetic acid is classified as an NTP

Anticipated Human Carcinogen: "Substances or groups of substances, and medical treatments which may reasonably by anticipated to be carcinogens."

IARC.....: Nitrilotriacetic acid sodium salt is classified as an IARC possible human carcinogen (Group 2B): "The chemical or group of chemicals is possibly carcinogenic for humans."

OSHA....: Not regulated

MEDICAL CONDITIONS

AGGRAVATED BY EXPOSURE.....: Persons with preexisting eye or skin conditions or impaired pulmonary function may be more susceptible to the effects of this product.

4. FIRST AID MEASURES:

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.....: In case of contact, remove contaminated clothing,

FIRST AID FOR SKIN.....: In case of contact, remove contaminated clothing, immediately wash skin with plenty of water. Wash clothing before reuse. Call a physician if irritation persists.

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, 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.

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6. ACCI	DENTAL RELEASE MEASURES:
EQUIPM sewers	EAK PROCEDURES: Use appropriate PERSONAL PROTECTIVE ENT during clean up. Dike Spill. Prevent liquid from entering , waterways or low areas. Soak up with sawdust, sand, oil dry or absorbent material. Spill may be neutralized with powdered Citric
7. HAND	LING AND STORAGE:
Prefer: SHELF LIFE SPECIAL SE: HANDLING/S' ventil: incomparea wi	MPERATURE(MIN/MAX): Store between 40 F (4.4 C) and 80 F (26 C). ced storage is at 68 F (20 C).
 8. PERS	DNAL PROTECTION:
eye glaresistand/or and/or exposus Protection ACC	CLOTHING REQUIREMENTS: Splash protection required for eyes, e.g., asses with side shields or goggles. For skin protection use chemical ant gloves and aprons. N REQUIREMENTS: Use sufficient general room ventilation local exhaust to maintain airborne levels of vapors below applicable to limits (see Section 2). REQUIREMENTS: Under normal conditions of use, respirator tion is not required. If respirators are used, institute a program ordance with OSHA standard 29CFR1010.134. PROTECTIVE MEASURES: Emergency showers and eye wash stations be made available. Educate and train employees in the safe use and any of this product.
9. PHYS	CAL AND CHEMICAL PROPERTIES:
APPEARANCE	DRM: Liquid: Clear: Colorless to yellowish

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9. PHYSICAL AND CHEMICAL PROPERTIES (Continued)
ODOR: Odorless pH: Approx. 10.8 BOILING POINT: Greater than 212 F (100 C) MELTING/FREEZING POINT: Less than 32 F (0 C) SOLUBILITY IN WATER: Soluble SPECIFIC GRAVITY: 1.241 at 68 F (20 C) BULK DENSITY: Not Applicable VAPOR PRESSURE: Approx. 23 mbar at 68 F (20 C) (water)
10. STABILITY AND REACTIVITY:
STABILITY: This is a stable material. HAZARDOUS POLYMERIZATION: Will not occur. INCOMPATIBILITIES: Strong Acids, oxidizers INSTABILITY CONDITIONS: None known. DECOMPOSITION PRODUCTS: In case of fire, oxides of sulfur, CO2, carbon monoxide and other potentially toxic fumes.
11. TOXICOLOGICAL INFORMATION:
TOXICITY DATA FOR: Potassium Carbonate ACUTE TOXICITY ORAL LD50: 1870 mg/kg (rat) TOXICITY DATA FOR: Diethylene Glycol ACUTE TOXICITY ORAL LD50: 12565 mg/kg (rat)
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.

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TRANSPORTATION INFORMATION:

TECHNICAL SHIPPING NAME.....: Aqueous Alkaline Photochemical Solution

PRODUCT LABEL..... Neutol Plus

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.

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15. REGULATORY INFORMATION (Continued)

Water	
7732-18-5 55-60 % PA3, NJ4	
Potassium metabisulfite	
16731-55-8 1-5 % PA3, NJ4	
Potassium Bromide	
7758-02-3 1-5 % PA3, NJ4	
Sodium isoascorbate	
6381-77-7 1-5 % PA3, NJ4	
Potassium Carbonate	
584-08-7 10-20 % PA3, NJ4	
Diethylene Glycol	
111-46-6 1-5 % PA1, NJ4	

NJ4 = New Jersey Other - included in 5 predominant ingredients > 1%

PA1 = Pennsylvania Hazardous Substance List

PA3 = Pennsylvania Non-hazardous present at 3% or greater.

16. OTHER INFORMATION:

Health Flammability Reactivity Personal Prot HMIS RATINGS: 2 0 0 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..... Establish MSDS PREPARED BY..... R. Ruppel-Kerr APPROVED BY..... H. W. Gventer APPROVAL DATE..... 06/18/1998

SUPERSEDES DATE..... None MSDS NUMBER..... 34166

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