



## MATERIAL SAFETY DATA SHEET P22 FIX ILFOCHROME RAPID

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**TRADE NAME:** P22 FIX ILFOCHROME RAPID

**SYNONYMS:** F 22.15

**PART No.:** IP910730F22.15

**UN/NA (PIN) No.:** 0

**EMERGENCY TELEPHONE:** FOR MEDICAL EMERGENCY IN THE UNITED STATES AND CANADA CALL 1-800-842-9660 (PRODUCT MISUSE). FOR TRANSPORTATION EMERGENCY CALL CHEMTREC 1-800-424-9300.

**SUPPLIER:** ILFORD Imaging USA Inc  
West 70 Century Road, Paramus, NJ 07653  
Tel: 201-265-6000

**CONTACT PERSON:** Bryan Sammartino

### 2. COMPOSITION, INFORMATION ON INGREDIENTS

| INGREDIENT NAME:            | CAS No.:   | CONTENTS : | EPA RQ:   | TPQ: |
|-----------------------------|------------|------------|-----------|------|
| AMMONIUM THIOSULPHATE       | 7783-18-8  | 30-60 %    |           |      |
| NITRILOTRIACETIC ACID (NTA) | 139-13-9   | 0-1 %      |           |      |
| N-METHYL-2-PYRROLIDONE      | 872-50-4   | 10-30 %    |           |      |
| AMMONIUM SULFITE            | 10196-04-0 | 5-10 %     | 5 000 lbs |      |

### 3. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:**

Colorless or pale yellow, ammonia smell, weakly acid, water-based, non-flammable liquid. Contains ammonium thiosulfate.

Irritating to eyes. Irritating to skin.

**ACUTE EFFECTS:**

**INHALATION:** No specific health warnings noted.

**INGESTION:** May cause discomfort if swallowed.

**SKIN:** Irritating to skin.

**EYES:** Irritating to eyes.

**CHRONIC EFFECTS:**

**HEALTH WARNINGS:**

Prolonged or repeated exposure may cause severe irritation. Irritating to eyes. Liquid may irritate the skin.

**ROUTE OF ENTRY:**

Ingestion. Skin and/or eye contact.

**MEDICAL INFORMATION:**

May aggravate existing: Skin disorders and allergies. Pre-existing eye problems.

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**4. FIRST AID MEASURES**

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**INHALATION:**

Move the exposed person to fresh air at once. Provide rest, warmth and fresh air. Get medical attention if any discomfort continues.

**INGESTION:**

DO NOT INDUCE VOMITING! Remove victim immediately from source of exposure. Rinse mouth thoroughly. Get medical attention immediately! Immediately give a couple of glasses of water, provided the victim is fully conscious.

**SKIN:**

Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if irritation persists after washing.

**EYES:**

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with lots of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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**5. FIRE FIGHTING MEASURES**

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**EXTINGUISHING MEDIA:**

This material is not flammable. Use extinguishing media appropriate for surrounding fire.

**HAZARDOUS COMBUSTION PRODUCTS:**

Ammonia or amines. Sulfur dioxide.

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**6. ACCIDENTAL RELEASE MEASURES**

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**SPILL CLEAN-UP PROCEDURES:**

Use appropriate protective clothing. Do not contaminate drainage or waterways. Absorb spill with non-reactive absorbent and place in non-reactive containers for disposal. Contain Spill. Use large quantities of water to flush small spills to sanitary sewer if local regulations permit. Do not flush to septic tank. See Section 13 for disposal considerations. Flush with plenty of water to clean spillage area. Do not let washing down water contaminate ponds or waterways. Inform Authorities if large amounts are involved.

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**7. HANDLING AND STORAGE**

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**HANDLING PRECAUTIONS:**

Read and follow manufacturer's recommendations. Avoid spilling, skin and eye contact. Provide good ventilation.

**STORAGE PRECAUTIONS:**

Keep in cool, dry, ventilated storage and closed containers. Store below 75°F. Keep in original container. Keep containers closed tightly.

**STORAGE CRITERIA:**

Chemical storage.

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## 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

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**PROTECTIVE EQUIPMENT:****ENGINEERING CONTROLS:**

Provide eyewash station and safety shower.

**VENTILATION:** Provide adequate general and local exhaust ventilation. Must not be handled in confined spaces without adequate ventilation. General room ventilation should provide for 10 - 15 room air changes per hour.

**RESPIRATORS:** Respiratory protection must be used if air concentration exceeds acceptable level. An acid gas/organic vapor cartridge should be used.

**PROTECTIVE GLOVES:**

Use protective gloves made of: Rubber (natural, latex). Neoprene. Polyethylene.

**EYE PROTECTION:**

Wear approved safety goggles.

**PROTECTIVE CLOTHING:**

Wear appropriate clothing to prevent any possibility of skin contact.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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|-----------------------------------------|------------------------|-----------------------------|
| <b>APPEARANCE/PHYSICAL STATE:</b>       | Liquid. Water soluble. |                             |
| <b>COLOR:</b>                           | Colorless.             |                             |
| <b>ODOR:</b>                            | Slight. Ammonia.       |                             |
| <b>SOLUBILITY DESCRIPTION:</b>          | Soluble in water.      |                             |
| <b>BOILING POINT (°F, interval):</b>    | 212                    | <b>PRESSURE:</b> 760mmHg    |
| <b>DENSITY/SPECIFIC GRAVITY (g/ml):</b> | 1.21                   | <b>TEMPERATURE (°F):</b> 68 |
| <b>pH-VALUE, CONC. SOLUTION:</b>        | 6.9                    |                             |

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## 10. STABILITY AND REACTIVITY

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**STABILITY:** Normally stable.

**CONDITIONS TO AVOID:**

Avoid excessive heat for prolonged periods of time. Avoid contact with acids and alkalis.

**HAZARDOUS POLYMERIZATION:**

Will not polymerize.

**MATERIALS TO AVOID:**

Avoid contact with other photographic solutions and/or cleaning compounds.

**HAZARDOUS DECOMPOSITION PRODUCTS:**

Irritating gases/vapors/fumes of: Ammonia or amines.

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## 11. TOXICOLOGICAL INFORMATION

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**TOXIC DOSE - LD 50:** ammonium thiosulphate 2890; nitrilotriacetic acid 1100; N-methylpyrrolidone 3914 mg/kg (oral rat)

**TOXICOLOGICAL INFORMATION:**

This chemical formulation has not been tested for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

**12. ECOLOGICAL INFORMATION**

**LC 50, 96 HRS, FISH, mg/l:** 200 ammonium thiosulphate; >1000 nitriлотriacetic acid; 5000 N-methylpyrrolidone  
**EC 50, 48 HRS, DAPHNIA, mg/l:** >100 nitriлотriacetic acid; 5000 N-methylpyrrolidone

**ECOLOGICAL INFORMATION:**

Not regarded as dangerous for the environment.

**13. DISPOSAL CONSIDERATIONS****DISPOSAL METHODS:**

Unused and spent solutions may be allowed to be discharged to sanitary sewer by permit IF allowed by local regulations. Consult your local authority for advice. Waste may have to be pretreated before discharge. Consult local authorities before discharging any waste to sewer. Do not discharge to septic system. Waste that cannot be discharged to sewer may have to be handled by a licensed hazardous waste contractor.

**14. TRANSPORT INFORMATION****GENERAL:**

To obtain additional information on packaging for shipment refer to the Code of Federal Regulations - CFR 49 and your carrier.

**U.S. DOT:****UN/NA No.:**

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**U.S. DOT HAZARD LABEL:**

No DOT label requirement noted

**U.S. DOT CLASS:**

No classification noted.

**INFORMATION ON ROAD TRANSPORT:** Not classified for road transport

**SEA TRANSPORT:**

**INFORMATION ON SEA TRANSPORT:** Not classified for sea transport

**AIR TRANSPORT:**

**INFORMATION ON AIR TRANSPORT:** Not classified for air transport

**15. REGULATORY INFORMATION****REGULATORY STATUS OF INGREDIENTS:**

| NAME:                       | CAS No:    | TSCA: | CERCLA: | SARA 302: | SARA 313: | DSL(CAN): |
|-----------------------------|------------|-------|---------|-----------|-----------|-----------|
| NITRILOTRIACETIC ACID (NTA) | 139-13-9   | Yes   | Yes     | No        | Yes       | Yes       |
| AMMONIUM SULFITE            | 10196-04-0 | Yes   | Yes     |           |           |           |

**US FEDERAL REGULATIONS:****REGULATORY STATUS:**

TSCA: The ingredients of this product are on the TSCA Inventory.

**ENVIRONMENTAL LISTING:**

Nitriлотriacetic acid: NTP-Carcinogens (DHHS). SARA Section 302, Extremely Hazardous Substances. SARA Section 313, Toxic Chemicals. SARA Title III Consolidated Chemical List (302, CERCLA, 313, RCRA). IARC - Animal carcinogen. IARC-Int. Agency for Cancer Research.

**STATE REGULATIONS:**

**STATE REGULATORY STATUS:** PROPOSITION 65: This product contains the following chemical(s) considered by the State of California's Safe Drinking Water and Toxic Enforcement Act of 1986 as causing cancer or reproductive toxicity, and for which warnings are now required: Nitrotriacetic acid. Florida Hazardous Substance List Massachusetts Right-to-Know. Massachusetts Extraordinarily Hazardous Substances List New Jersey Right-to-Know. NJ Environmental Hazardous Substances List NJ Special Hazardous Substances List Pennsylvania Right-to-Know. Pennsylvania Special Hazardous Substance List.

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## 16. OTHER INFORMATION

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**USER NOTES:** ILFORD IMAGING USA INC. BELIEVES THE INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN ARE BASED ON CORRECT AND FACTUAL DATA. HOWEVER, NO EXPRESS OR IMPLIED GUARANTEE OR WARRANTY OF ANY KIND IS MADE WITH RESPECT TO THIS INFORMATION. USE THIS INFORMATION ONLY TO SUPPLEMENT OTHER INFORMATION YOU HAVE GATHERED AND THEN MAKE AN INDEPENDENT DETERMINATION ABOUT THE COMPLETENESS AND SUITABILITY OF ALL INFORMATION TO INSURE THE PROPER USE AND DISPOSAL OF THIS PRODUCT AND THE HEALTH AND SAFETY OF EMPLOYEES AND CUSTOMERS.

**INFORMATION SOURCES:** European Photographic Chemical Industry Code of Practice For Classification And Labelling Material Safety Data Sheet, Misc. manufacturers. Safeware Quasar Ltd USA Regulatory Information ANSI Z400.1-1998 Material Safety Data Sheets - Preparation

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**REVISION No./Repl. MSDS of:** 12/9/97