



## MATERIAL SAFETY DATA SHEET

### 2000RT FIX 1+4

#### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**TRADE NAME:** 2000RT FIX 1+4

**PART No.:** IP90424-1+4

**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	1-5 %		
SODIUM SULPHITE	7757-83-7	0-1 %		
ACETIC ACID	64-19-7	0-1 %		

#### 3. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:**

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

Not regarded as a health hazard under current legislation.

**ACUTE EFFECTS:**

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

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

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

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

**CHRONIC EFFECTS:**

**HEALTH WARNINGS:**

No specific health warnings noted. No specific acute or chronic health impact noted, but this chemical may still have adverse impact on human health, either in general or on certain individuals with pre-existing or latent health problems.

**ROUTE OF ENTRY:**

Ingestion. Skin and/or eye contact.

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## 4. FIRST AID MEASURES

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- INHALATION:** No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, **GET MEDICAL ATTENTION PROMPTLY!**
- INGESTION:** Rinse mouth thoroughly. Drink plenty of water. Get medical attention if any discomfort continues.
- SKIN:** Rinse with water.
- 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:**  
Fire creates: Irritating gases/vapors/fumes. Ammonia or amines.
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## 6. ACCIDENTAL RELEASE MEASURES

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- SPILL CLEAN-UP PROCEDURES:**  
Non-hazardous substance. 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. Prevent discharge of larger quantity to drain.
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## 7. HANDLING AND STORAGE

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- HANDLING PRECAUTIONS:**  
Avoid spilling, skin and eye contact. Read and follow manufacturer's recommendations. Provide good ventilation.
- STORAGE PRECAUTIONS:**  
Keep in cool, dry, ventilated storage and closed containers. Keep in original container.
- 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:** Not relevant.

**PROTECTIVE GLOVES:**

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

**EYE PROTECTION:**

If risk of splashing, wear safety goggles or face shield.

**PROTECTIVE CLOTHING:**

Wear appropriate clothing to prevent any possibility of skin contact.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE/PHYSICAL STATE:</b>	Liquid. Water soluble.	
<b>COLOR:</b>	Yellow. Green.	
<b>ODOR:</b>	Slight.	
<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>	1.330	<b>TEMPERATURE (°F):</b> 68
<b>pH-VALUE, CONC. SOLUTION:</b>	5.15	

## 10. STABILITY AND REACTIVITY

**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. Sulfur dioxide.

## 11. TOXICOLOGICAL INFORMATION

**TOXIC DOSE - LD 50:** acetic acid 3310; ammonium thiosulphate 2890 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:** >10 acetic acid; 200 ammonium thiosulphate

**EC 50, 48 HRS, DAPHNIA, mg/l:** >10 acetic acid

**ECOLOGICAL INFORMATION:**

Not regarded as dangerous for the environment.

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### 13. DISPOSAL CONSIDERATIONS

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**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.

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### 14. TRANSPORT INFORMATION

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**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

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### 15. REGULATORY INFORMATION

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

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

**ENVIRONMENTAL LISTING:**

Acetic acid: CERCLA (EPA Superfund)-Comprehensive Environm. Response, Comp. Liability Act. Clean Water Act, S.311 (Fed.Reg.-EPA). DOT Hazardous Mat. Transp. Act (49 CFR). OSHA Chemical Hazard Communic. Std. - Air Contaminants (29CFR1910). ACGIH Threshold Limit Values. EPA Reportable & Threshold Quantities. SARA Title III Consolidated Chemical List (302, CERCLA, 313, RCRA).

**STATE REGULATIONS:****STATE REGULATORY STATUS:**

Florida Hazardous Substance List Massachusetts Right-to-Know. New Jersey Right-to-Know. NJ Special Hazardous Substances List Pennsylvania Right-to-Know.

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### 16. OTHER INFORMATION

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**USER NOTES:**

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**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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