

# ILFORD PHOTO

## HARMAN technology Ltd

### MATERIAL SAFETY DATA SHEET

#### Rapid Fixer

#### 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

<b>PRODUCT NAME</b>	Rapid Fixer
<b>PRODUCT NO.</b>	1985253, 1985262, 1985565
<b>INTERNAL ID</b>	10023
<b>PRODUCT USE</b>	Fixer Solution
<b>SUPPLIER</b>	Distributors USA: WYNIT Inc, 5801 East Taft Road, North Syracuse, NY 13212. Tel: 1 800 GO WYNIT (469 9648) or 1 315 437 4167, Fax: 1 315 437 0432 Canada: Amplis Foto Inc, 22 Telson Road, Markham, Ontario L3R 1E5, Tel: 905 477 4111, Fax: 905 477 2502
<b>CONTACT PERSON</b>	USA: ilfordhelp@wynit.com; Canada: phil.nielsen@amplis.com
<b>EMERGENCY TELEPHONE</b>	USA/Canada: For medical emergency, call 1 800 842 9660 (Product Misuse); For transportation emergency call CHEMTREC 1 800 424 9300
<b>CONTAINER SIZE</b>	500ml 1 Liter 5 Liter
<b>CONTAINER SIZE</b>	

#### 2 HAZARDS IDENTIFICATION

May irritate eyes.

#### POTENTIAL HEALTH EFFECTS

##### INHALATION

No specific health warnings noted.

##### INGESTION

No specific health warnings noted.

##### SKIN CONTACT

No specific health warnings noted.

##### EYE CONTACT

Irritating to eyes.

##### HEALTH WARNINGS

No specific health warnings noted.

Spray and vapor in the eyes may cause irritation and smarting.

##### ROUTE OF ENTRY

Ingestion. Skin and/or eye contact.

##### MEDICAL CONSIDERATIONS

May aggravate existing: Pre-existing eye problems.

#### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Weight
Ammonium Thiosulphate	231-982-0	7783-18-8	36-50
Water	231-791-2	7732-18-5	36-50

#### 4 FIRST-AID MEASURES

## Rapid Fixer

### INHALATION

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

### INGESTION

Remove victim immediately from source of exposure. Rinse mouth thoroughly. Drink a few glasses of water or milk. DO NOT induce vomiting. Get medical attention immediately.

### SKIN CONTACT

Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Contact physician if irritation continues.

### EYE CONTACT

Remove victim immediately from source of exposure. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Contact physician if irritation persists.

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## 5 FIRE-FIGHTING MEASURES

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### EXTINGUISHING MEDIA

The product is non-combustible. Use extinguishing media appropriate for surrounding fire.

### SPECIAL FIRE FIGHTING PROCEDURES

Avoid breathing fire vapors.

### UNUSUAL FIRE & EXPLOSION HAZARDS

No unusual fire or explosion hazards noted.

### SPECIFIC HAZARDS

The product is non-combustible. If heated, harmful vapors may be formed.

### PROTECTIVE MEASURES IN FIRE

Use protective equipment appropriate for surrounding materials. Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.

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## 6 ACCIDENTAL RELEASE MEASURES

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### PERSONAL PRECAUTIONS

Avoid contact with skin and eyes. Provide adequate ventilation. For personal protection, see section 8.

### ENVIRONMENTAL PRECAUTIONS

Do not discharge into drains, water courses or onto the ground. The product should not be dumped in nature but collected and delivered according to agreement with the local authorities.

### SPILL CLEAN UP METHODS

For waste disposal, see section 13. Wear necessary protective equipment. Small quantities may be flushed to drains with plenty of water. Absorb in vermiculite, dry sand or earth and place into containers. Wash contaminated area with water. Prevent discharge of larger quantity to drain.

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## 7 HANDLING AND STORAGE

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### HANDLING

Provide good ventilation. Avoid spilling, skin and eye contact. Do not eat, drink or smoke when using the product. Read and follow manufacturer's recommendations.

### STORAGE

Store in closed original container in a dry place. Store above freezing. Store under well-ventilated conditions at a temperature below 25°C.

### STORAGE CLASS

Chemical storage.

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## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

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### PROTECTIVE EQUIPMENT



### ENGINEERING MEASURES

Provide adequate ventilation. Must not be handled in confined space without sufficient ventilation.

## Rapid Fixer

### RESPIRATORY EQUIPMENT

Respiratory protection not required.

### HAND PROTECTION

Use protective gloves.

### EYE PROTECTION

Use eye protection.

### OTHER PROTECTION

Wear suitable protective clothing as protection against splashing or contamination.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE</b>	Liquid		
<b>COLOR</b>	Yellow Green		
<b>ODOR</b>	Slightly pungent odor		
<b>SOLUBILITY</b>	Soluble in water. 100%		
<b>BOILING POINT (°C)</b>	>100 760 mm Hg	<b>MELTING POINT (°C)</b>	<0
<b>RELATIVE DENSITY</b>	1.34 20	<b>VAPOR PRESSURE</b>	- Not Known
<b>EVAPORATION RATE</b>	1 H <sub>2</sub> O (water)=1	<b>pH-VALUE, CONC. SOLUTION</b>	5.1

## 10 STABILITY AND REACTIVITY

### STABILITY

Stable under the prescribed storage conditions. No particular stability concerns.

### CONDITIONS TO AVOID

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

### HAZARDOUS POLYMERISATION

Will not polymerise.

### MATERIALS TO AVOID

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

### HAZARDOUS DECOMPOSITION PRODUCTS

When heated, toxic and corrosive vapours/gases may be formed. Irritating gases/vapors/fumes of: Ammonia or amines. Sulfur dioxide.

## 11 TOXICOLOGICAL INFORMATION

### 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 that comprise the mixture.

<b>Name</b>	SODIUM METABISULPHITE
<b>Toxic Dose 1 - LD 50</b>	1540 mg/kg (oral rat)
<b>Name</b>	Ammonium Thiosulphate
<b>Toxic Dose 1 - LD 50</b>	2890 mg/kg (oral rat)

## 12 ECOLOGICAL INFORMATION

### ECOTOXICITY

Not regarded as dangerous for the environment.

<b>Name</b>	SODIUM METABISULPHITE
<b>LC 50, 96 hrs, Fish mg/l</b>	>150
<b>EC 50, 48 hrs, Daphnia, mg/l</b>	89
<b>IC 50, 72 hrs, Algae, mg/l</b>	48

## 13 DISPOSAL CONSIDERATIONS

### WASTE MANAGEMENT

The disposal process for this product when it becomes waste, depends largely upon how much (volume) waste is generated, where the waste is generated (location) and by whom (whether in a professional or amateur or other capacity). Therefore only outline guidance can be provided. For detailed guidance and advice on the disposal of this product when it becomes waste, please visit the COPPICE web site at <http://www.pic.uk.net/coppice/index.htm>. The information is relevant to both professional and amateur users.

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### DISPOSAL METHODS

Used, diluted, 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 pre-treated 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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<b>TRANSPORT NOTES</b>	The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, DOT).
<b>ROAD TRANSPORT NOTES</b>	Not classified for road transport
<b>RAIL TRANSPORT NOTES</b>	Not classified for rail transport
<b>SEA TRANSPORT NOTES</b>	Not classified for sea transport
<b>AIR TRANSPORT NOTES</b>	Not classified for air transport

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### 15 REGULATORY INFORMATION

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#### REGULATORY STATUS (US)

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

### WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM -WHMIS

#### LABEL(S) FOR SUPPLY

Not Classified  
According to  
WHMIS.

#### CONTROLLED PRODUCT CLASSIFICATION

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (CPR SECTION (33)) This product has been classified according to the hazard criteria of the Controlled Product Regulations, and the MSDS contains all required information.

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### 16 OTHER INFORMATION

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#### GENERAL INFORMATION

HARMAN technology Ltd believe 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 ensure 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. Dangerous Properties of Industrial Chemicals, 6.edition, N.Sax, 1984.

#### ISSUED BY

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