

# ILFORD PHOTO

## HARMAN technology Ltd

### SAFETY DATA SHEET

#### 2000RT Fixer/ Replenisher

According to WHMIS 2015, in compliance with the Hazardous Product Act (HPA, as amended) and the requirements of the Hazardous Product Regulations (HPR)

#### 1. Identification

##### Product identifier

**Product name** 2000RT Fixer/ Replenisher  
**Product number** 1758524  
**Internal identification** 10123  
**Container size** 5 Litre

##### Recommended use of the chemical and restrictions on use

**Restriction on use** Photographic Fixer Solution

##### Details of the supplier of the safety data sheet

**Supplier** Distributor  
Amplis Foto Inc, 22 Telson Road,  
Markham, Ontario L3R 1E5  
Tel: 905 477 4111  
Fax: 905 477 2502

**Contact person** Contact Distributor: christine@amplis.com, <http://www.amplis.com>

##### Emergency telephone number

**Emergency telephone** Canada/USA: For medical emergency, call 1 800 842 9660 (Product Misuse).

#### 2. Hazard identification

##### Classification of the substance or mixture

**Physical hazards** Not Classified  
**Health hazards** Skin Irrit. 2 - H315 Eye Irrit. 2 - H319  
**Environmental hazards** Not Classified

##### Label elements

##### Hazard pictograms



**Signal word** Warning

**Hazard statements** H315 Causes skin irritation.  
H319 Causes serious eye irritation.

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<b>Precautionary statements</b>	<p>P102 Keep out of reach of children.</p> <p>P280 Wear protective clothing, gloves, eye and face protection.</p> <p>P302+P352 IF ON SKIN: Wash with plenty of water.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P501 Dispose of contents/ container in accordance with local regulations.</p>
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### Other hazards

No information available.

### 3. Composition/information on ingredients

#### Mixtures

<b>Ammonium Thiosulphate</b>	<b>30-60%</b>
CAS number: 7783-18-8	
<b>Classification</b>	
Not Classified	
<b>SODIUM BISULPHITE ....%</b>	<b>1-5%</b>
CAS number: 7631-90-5	
<b>Classification</b>	
Acute Tox. 4 - H302	
<b>Acetic acid</b>	<b>&lt; 2%</b>
CAS number: 64-19-7	
<b>Classification</b>	
Flam. Liq. 3 - H226	
Skin Corr. 1A - H314	
Eye Dam. 1 - H318	

The full text for all hazard statements is displayed in Section 16.

### 4. First-aid measures

#### Description of first aid measures

<b>Inhalation</b>	Move affected person to fresh air at once. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Get medical attention if any discomfort continues.
<b>Skin contact</b>	Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.
<b>Eye contact</b>	Remove affected person from source of contamination. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.

#### Most important symptoms and effects, both acute and delayed

<b>Inhalation</b>	No specific symptoms known.
<b>Ingestion</b>	No specific symptoms known.
<b>Skin contact</b>	This product is moderately irritating.

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**Eye contact** Irritating.

### Indication of any immediate medical attention and special treatment needed

**Notes for the doctor** No specific recommendations.

### 5. Fire-fighting measures

#### Extinguishing media

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

#### Specific hazards arising from the hazardous product

**Specific hazards** The product is non-combustible. No unusual fire or explosion hazards noted.

**Hazardous combustion products** Thermal decomposition or combustion products may include the following substances: Oxides of carbon. Oxides of nitrogen. Oxides of sulfur. Ammonia.

#### Advice for firefighters

**Protective actions during firefighting** Avoid breathing fire gases or vapours.

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

### 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Avoid contact with skin and eyes. Provide adequate ventilation. For personal protection, see Section 8.

#### Environmental precautions

**Environmental precautions** Do not discharge into drains or watercourses or onto the ground. Collect and dispose of spillage as indicated in Section 13.

#### Methods and material for containment and cleaning up

**Methods for cleaning up** Wear protective clothing, gloves, eye and face protection. Small Spillages: Flush away spillage with plenty of water. Large Spillages: Absorb in vermiculite, dry sand or earth and place into containers. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses.

#### Reference to other sections

**Reference to other sections** For personal protection, see Section 8. For waste disposal, see Section 13.

### 7. Handling and storage

#### Precautions for safe handling

**Usage precautions** Provide adequate ventilation. Avoid spilling. Avoid contact with skin and eyes. Do not eat, drink or smoke when using this product. Read and follow manufacturer's recommendations.

#### Conditions for safe storage, including any incompatibilities

**Storage precautions** Store in tightly-closed, original container. Storage advice to ensure the product remains in a useable condition throughout its specified shelf life: Store at temperatures above 0°C. Store at temperatures not exceeding 30°C.

**Storage class** Chemical storage.

#### Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.

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### 8. Exposure controls/Personal protection

#### Control parameters

#### Occupational exposure limits

#### SODIUM BISULPHITE ....%

Long-term exposure limit (8-hour TWA): ACGIH 5 mg/m<sup>3</sup>

A4

#### Acetic acid

Long-term exposure limit (8-hour TWA): ACGIH 10 ppm 25 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): ACGIH 15 ppm 37 mg/m<sup>3</sup>

ACGIH = American Conference of Governmental Industrial Hygienists.

A4 = Not Classifiable as a Human Carcinogen.

#### Exposure controls

#### Protective equipment



#### Appropriate engineering controls

Provide adequate ventilation. This product must not be handled in a confined space without adequate ventilation.

#### Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.

#### Hand protection

Use protective gloves.

#### Other skin and body protection

Wear suitable protective clothing as protection against splashing or contamination.

#### Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn.

### 9. Physical and chemical properties

#### Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Green-yellow.
Odour	Slight pungent.
pH	pH (concentrated solution): 5.1
Melting point	<0°C
Initial boiling point and range	>100°C @ 760 mm Hg
Evaporation rate	~ 1 H <sub>2</sub> O (water)=1
Vapour pressure	Data lacking.
Relative density	1.34 @ 20°C
Solubility(ies)	Soluble in water. 100%
Other information	Not available.

### 10. Stability and reactivity

#### Reactivity

See the other subsections of this section for further details.

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<b>Stability</b>	Stable under the prescribed storage conditions. No particular stability concerns.
<b>Possibility of hazardous reactions</b>	Under normal conditions of storage and use, no hazardous reactions will occur.
<b>Conditions to avoid</b>	Avoid excessive heat for prolonged periods of time. Avoid contact with acids and alkalis.
<b>Materials to avoid</b>	Strong acids. Strong alkalis. Avoid contact with other photographic solutions and/or cleaning compounds.
<b>Hazardous decomposition products</b>	Thermal decomposition or combustion products may include the following substances: Irritating gases or vapours. Ammonia or amines. Sulfur dioxide. Oxides of carbon. Oxides of nitrogen.

### 11. Toxicological information

#### Information on toxicological effects

**Toxicological effects** 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.

#### Acute toxicity - oral

**ATE oral (mg/kg)** 12,834.33

**Inhalation** No specific health hazards known.

**Ingestion** No specific health hazards known.

**Skin contact** This product is moderately irritating.

**Eye contact** Irritating to eyes.

**Acute and chronic health hazards** No known chronic or acute health risks.

**Route of exposure** Ingestion. Skin and/or eye contact

### 12. Ecological information

**Ecotoxicity** Not regarded as dangerous for the environment.

**Toxicity** Not considered toxic to fish.

#### Ecological information on ingredients

##### Acetic acid

#### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: >100 mg/l, Fish

#### Persistence and degradability

**Persistence and degradability** No data available.

#### Bioaccumulative potential

**Bioaccumulative potential** No data available on bioaccumulation.

#### Mobility in soil

**Mobility** The product is soluble in water.

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### Other adverse effects

**Other adverse effects** The product may contribute to an excessive enrichment of the aquatic environment with nutrients.

### 13. Disposal considerations

#### Waste treatment methods

**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.

### 14. Transport information

**General** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, TDG).

#### UN number

**UN No. (International)** Not applicable.

#### UN proper shipping name

**Proper shipping name (International)** Not applicable.

#### Transport hazard class(es)

**Transport Labels (International)** Not applicable.

#### Transport labels

No transport warning sign required.

#### DOT transport label

#### Packing group

**Packing group (International)** Not applicable.

#### Environmental hazards

##### **Environmentally hazardous substance/marine pollutant**

No.

#### Special precautions for user

Not applicable.

**DOT TIH Zone** Not applicable.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

### 15. Regulatory information

#### Inventories

**Canada – DSL/NDSL**

*Ammonium Thiosulphate*

## 2000RT Fixer/ Replenisher

*Water*

*Sodium Acetate*

*SODIUM BISULPHITE ....%*

*Acetic acid*

### 16. Other information

<b>General information</b>	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.
<b>Key literature references and sources for data</b>	European Photographic Chemical Industry Code of Practice For Classification And Labelling Dangerous Properties of Industrial Chemicals, 6.edition, N.Sax, 1984. Material Safety Data Sheet, Misc. manufacturers.
<b>Issued by</b>	HS&E Advisor Dr Trevor Rhodes Tel: +44(0)1565 650000, email: trevor.rhodes@harmantechnology.com
<b>Revision date</b>	2017-11-20
<b>Revision</b>	2
<b>Supersedes date</b>	14/05/2015
<b>Hazard statements in full</b>	H226 Flammable liquid and vapour. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation.