# **ILFORD** PHOTO

# HARMAN technology Ltd

# SAFETY DATA SHEET 2000RT Fixer/ Replenisher

According to Appendix D, OSHA Hazard Communication Standard 29 CFR §1910.1200

1. Identification

Product identifier

**Product name** 2000RT Fixer/ Replenisher

Product number 1758524

Internal identification 10123

Container size 5 Liter

Recommended use of the chemical and restrictions on use

Application Fixer Solution

Details of the supplier of the safety data sheet

Supplier

Distributor

USA: Robert Distributors, 220 East Saint Clair St, Indianapolis, IN 46204

Tel:877-281-6405

Contact Person

**Emergency telephone number** 

Contact Distributor: sales@robertsdistributors.com

Emergency telephone

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

2. Hazard(s) identification

Classification of the substance or mixture

Physical hazards Not Classified

Health hazards Skin Irrit. 2 - H315 Eye Irrit. 2A - H319

Environmental hazards Not Classified

Label elements

**Pictogram** 



Signal word Warning

Hazard statements H315 Causes skin irritation.

H319 Causes serious eye irritation.

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**Precautionary statements** P102 Keep out of reach of children.

P280 Wear protective clothing, gloves, eye and face protection.

P302+P352 If on skin: Wash with plenty of water.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P501 Dispose of contents/ container in accordance with local regulations.

#### Other hazards

No information available.

# 3. Composition/information on ingredients

#### **Mixtures**

Ammonium Thiosulphate 30-60%

CAS number: 7783-18-8

Classification
Not Classified

SODIUM BISULPHITE ....% 1-5%

CAS number: 7631-90-5

Classification

Acute Tox. 4 - H302

Acetic acid <2%

CAS number: 64-19-7

Classification

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

**Inhalation** Move affected person to fresh air at once. Get medical attention if any discomfort continues.

**Ingestion** Rinse mouth thoroughly with water. Get medical attention if any discomfort continues.

**Skin Contact** 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.

**Eye contact** 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

InhalationNo specific symptoms known.IngestionNo specific symptoms known.

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

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Eye contact Irritating.

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

#### 5. Fire-fighting measures

#### **Extinguishing media**

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

#### Special hazards arising from the substance or mixture

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 vapors.

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 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 uses(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/m³

#### Acetic acid

Long-term exposure limit (8-hour TWA): OSHA 10 ppm 25 mg/m³ Long-term exposure limit (8-hour TWA): ACGIH 10 ppm 25 mg/m³ Short-term exposure limit (15-minute): ACGIH 15 ppm 37 mg/m<sup>3</sup> ACGIH = American Conference of Governmental Industrial Hygienists. OSHA = Occupational Safety and Health Administration.

A4 = Not Classifiable as a Human Carcinogen.

#### **Exposure controls**

## Protective equipment







Appropriate engineering

Eye/face protection

controls

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

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.

Color Green-yellow. Odor Slight pungent.

pΗ pH (concentrated solution): 5.1

<0°C Melting point

Initial boiling point and range >100°C @ 760 mm Hg

~ 1 H2O (water)=1 **Evaporation rate** 

Vapor pressure Data lacking. 1.34 @ 20°C Relative density

Soluble in water. 100% Solubility(ies)

Other information Not available.

# 10. Stability and reactivity

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**Reactivity** See the other subsections of this section for further details.

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

Possibility of hazardous

reactions

Under normal conditions of storage and use, no hazardous reactions will occur.

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

Materials to avoid Strong acids. Strong alkalis. Avoid contact with other photographic solutions and/or cleaning

compounds.

Hazardous decomposition

products

Thermal decomposition or combustion products may include the following substances: Irritating gases or vapors. 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 entry Ingestion. Skin and/or eye contact

# 12. Ecological Information

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

**Toxicity** Not considered toxic to fish.

#### Acetic acid

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

Persistence and degradability

Persistence and degradability No data available.

Bioaccumulative potential

Bio-Accumulative 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 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, DOT).

#### **UN Number**

Not applicable.

#### UN proper shipping name

Not applicable.

#### Transport hazard class(es)

Not applicable.

#### Transport labels

No transport warning sign required.

#### **DOT transport labels**

No transport warning sign required.

# Packing group

Not applicable.

#### **Environmental hazards**

#### **Environmentally Hazardous Substance**

Nο

#### Special precautions for user

Not applicable.

DOT TIH Zone Not applicable.

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

#### 15. Regulatory information

#### **US State Regulations**

State Regulations Comments No information available.

#### Inventories

US - TSCA 12(b) Export Notification

# 2000RT Fixer/ Replenisher

Ammonium Thiosulphate

Water

Sodium Acetate

SODIUM BISULPHITE ....%

Acetic acid

#### 16. Other information

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.

Key literature references and

sources for data

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.

Issued by SHE.Team@harmantechnology.com

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H226 Flammable liquid and vapor.

Hazard statements in full

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.