





# SAFETY DATA SHEET

## MEDIPHOT E90 X-Ray Film Developer / Replenisher

### Eye Contact:

Part A: Likely to cause burns and possible corneal damage due to presence of caustic alkali and hydroquinone.

Parts B: Likely to cause irritation.

### Skin Contact:

Parts A: Prolonged or repeated contact may cause irritation and possible skin sensitisation.

### Working Strength:

May cause skin sensitisation due to the presence of glutaraldehyde.

### Ingestion:

Part A: Harmful if swallowed - likely to cause severe irritation or burns of the gastro-intestinal tract.

### Inhalation:

Working Strength Solution: Glutaraldehyde is present at very low levels, and vapour may be produced. Glutaraldehyde vapour may cause sensitisation if inhaled, the early signs of which are itchy and/or runny eyes and nose.

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## 12) ECOLOGICAL INFORMATION

The following summary of expected environmental effects is based on known data for the principal ingredients and on the physico-chemical properties of the preparation.

### Working Strength Solution and Part A

A moderate bio-chemical oxygen demand and high pH will result in short term oxygen depletion and increased alkalinity in the aquatic environment, with subsequent localised damage to plant and animal organisms. Harmful short term effects are rapidly reduced by dilution, oxidation and photodecomposition and the product has a very low potential to persist in a harmful form.

### Parts B

A low bio-chemical oxygen demand and moderate pH are expected to result in a low potential to adversely affect aquatic organisms. As a result of the above properties, precautions should be taken to avoid release of the product or working strength solution into the environment, (see Section 13).

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## 13) DISPOSAL CONSIDERATIONS

### **Surplus Product and Working Strength Solution:**

Disposal should be in accordance with current local and national legislation and only by a licensed waste contractor. Do not dispose of either concentrate or working strength solutions into drains, sewers or waterways.

### **Plastic Containers:**

Rinse thoroughly with water and dispose as solid waste to land fill or re-cycle where possible.

### **Cardboard Cartons:**

Re-cycle where possible or treat as solid waste.

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## 14) TRANSPORT INFORMATION

Not classified as hazardous for transport

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## 15) REGULATORY INFORMATION

Part A contains Potassium Hydroxide & Hydroquinone.

### **Hazard Symbol:**

Xn Harmful

### **Risk Phrases:**

R34 : Causes burns

R40 : Possible risk of Irreversible Effects

R43 : May cause sensitisation by skin contact

### **Safety Phrases:**

S2: Keep out of reach of children

S36/37

/39: Wear suitable protective clothing, gloves and eye/face protection.

S45: In case of accident or if you feel unwell, seek medical advice (show the label where possible).

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## 16) OTHER INFORMATION

The information contained in this Safety Data Sheet does not constitute the users own assessment of work place risk as required by other health and safety legislation, (eg. COSHH Regulations in the UK).

### Document History

Prepared by: DS

Revision No: 5

Revision Date: 16.03.00

Reference Sources Include: CHIP Regs and related ACOPs. UK HSE EH40, Occupational Exposure Limits Croner's First Aid Guide Raw Material MSDS

Changes at this Revision: Glutaraldehyde assigned a Maximum Exposure Limit (MEL).

**The information contained in this Safety Data Sheet is to our best present knowledge correct and complete and is given in good faith but without warranty.**

# SAFETY DATA SHEET

## MEDIPHOT F90 X-Ray Film Fixer

### 1) IDENTIFICATION

**Colenta Product Code:**

520219

**Supplier:**

Colenta Labortechnik GmbH &amp; Co. KG

Neunkirchner Strasse 117

A-2700 Wiener Neustadt, Austria

**Telephone No:** + 44 (0) 2622 28311-0**Fax:** + 43 (0) 2622 28311-7

### 2) COMPOSITION/INFORMATION ON INGREDIENTS

**Product Description:**

A two part machine X-Ray Fixer concentrate containing the following principal components in aqueous solution:

Part A	CAS NO.	% w/w
Ammonium Thiosulphate	7783-18-8	45-55
Ammonium Acetate	631-61-8	5-10
Sodium Bisulphite	7631-90-5	2-5
Boric Acid	10043-35-3	2-5

**Part B**

Aluminium Sulphate	10043-01-3	20-25
Sulphuric Acid	7664-93-9	< 5

**Note:**

The part A component contains an odour masking compound (< 0.05%).

### 3) HAZARDS IDENTIFICATION

**Human Health Hazards:****Part A**

Not classified as hazardous. Small quantities of acetic acid vapour and sulphur dioxide may be produced.

This may cause respiratory irritation in poorly ventilated areas.

**Part B**

Irritant - irritating to eyes and skin.

**Safety Hazards:****Part A and Working Strength Solution**

Contact with alkalis, including X-Ray developer liberates irritant gas, (ammonia). Contact with acids liberates harmful gases (sulphur dioxide and hydrogen sulphide).

**Environmental Hazards:**

Will cause short term oxygen depletion if allowed to enter the aquatic environment. The part B concentrate and the working strength solution contain components which are harmful to aquatic life.

### 4) FIRST AID MEASURES

**Eyes:**

Flush immediately with eye-wash solution or clean water for several minutes holding the eyelids apart. Obtain medical attention if irritation develops.

**Inhalation:**

Move to fresh air if vapour causes breathing difficulties. Obtain medical attention if symptoms persist.

**Skin Contact:**

Remove any contaminated clothing and wash skin thoroughly with water followed by a neutral cleanser and water. Obtain medical attention if irritation occurs. Wash contaminated clothing before re-use.

**Ingestion:**

Rinse mouth with water and drink two glasses of water. Do not induce vomiting.

Obtain medical attention.

IN ALL CASES OF DOUBT OR IF SYMPTOMS PERSIST, SEEK MEDICAL ADVICE. SHOW THE PRODUCT LABEL AND THIS SAFETY DATA SHEET TO THE DOCTOR

### 5) FIRE-FIGHTING MEASURES

Not classified as flammable. If involved in a major fire, hazardous combustion product may include Sulphur Dioxide and Hydrogen Sulphide.

**Extinguishing Media:**

Suitable for the surrounding fire.

**Protective Equipment:**

Self-contained respiratory equipment.

### 6) ACCIDENTAL RELEASE MEASURES

**Personal Protection:**

When dealing with spillages of concentrates or working strength solution, use the personal protection specified in Section 8. Ensure spill area is well ventilated.

**Environmental Precautions:**

Prevent spillages from entering drain by absorption into inert absorbent material (eg. dry sand or earth) and transfer to a container for disposal by a licensed waste contractor.

**Cleaning Up:**

After collecting the bulk of the spillage thoroughly wash area to drain with water.

### 7) HANDLING AND STORAGE

**Handling:**

When handling the product concentrates, avoid contact with eyes, skin and clothing. Use in a well ventilated area.

**Storage:**

Store in a dry, well ventilated area at a moderate temperature. Store away from incompatible substances, (see Section 10).

### 8) EXPOSURE CONTROLS/PERSONAL PROTECTION

Small quantities of sulphur dioxide and acetic acid vapour may be liberated from the product and during preparation of the working strength solution.

**UK Occupational Exposure Limits:**

STEL (15 min) Sulphur Dioxide	13mg m <sup>-3</sup>
TWA (8 hour) Sulphur Dioxide	5mg m <sup>-3</sup>
STEL (15 min) Acetic Acid	37mg m <sup>-3</sup>
TWA (8 hour) Acetic Acid	25mg m <sup>-3</sup>

**Engineering Measures:**

Ensure good ventilation or local exhaust ventilation of the whole working area.

**Respiratory Protection:**

Should not be required.

**Skin Protection:**

Wear impervious gloves when handling product concentrates. Avoid excessive contact with the working strength solution. The regular use of a neutral, (non-alkaline) skin cleanser is recommended.

**Eye Protection:**





