

Rollei R³ Fixing Bath BLACK & WHITE

1) IDENTIFICATION

Product name/trade name ROLLEI R³ HIGH ENERGY FIXING BATH
Product Code: RFX11
Presentation: 1L
Manufacturer /Supplier: Hans O. Mahn & Co. KG, MACO PHOTO PRODUCTS
 Brookstieg 4, 22145 Stapelfeld, Germany
Telephone No: + 49 (40) 237008-88
Fax: + 49 (40) 237008-488
Email: photo@mahn.net

2) COMPOSITION/INFORMATION ON INGREDIENTS

Product Description:

A water based monochrome photographic developer containing the following components contributing to hazard:

	CAS NO	%w/w
Ammonium thiosulphate	7783-18-8	25-50
Sodium sulphite	7757-83-7	5-10
Acetic acid	64-19-7	5-10

3) HAZARDS IDENTIFICATION

Human Health Hazards:

Irritating to skin. Harmful. Possible risk of Irreversible effects. May cause sensitisation by skin contact. Limited evidence of a carcinogenic effect.

Safety Hazards:

Contact with acids liberates harmful gas, (sulphur dioxide).
Contact with photographic Fixer liberates irritant gas (ammonia).

Environmental Hazards:

Will cause short term oxygen depletion if allowed to enter aquatic environment.

4) FIRST AID MEASURES

Eyes:

Flush immediately with eye-wash solution or clean water for at least 15 minutes holding the eyelids apart. Obtain medical attention if irritation or redness develops.

Inhalation:

Remove the casualty into fresh air and keep him calm.

Rollei R³ Fixing Bath **BLACK & WHITE**

Skin Contact:

Remove any contaminated clothing. Wash skin with cold water then thoroughly with a neutral, (non-alkaline) cleanser and water. Thoroughly wash contaminated clothing before re-use. Obtain medical attention if irritation develops.

Ingestion:

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

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 (water based). If involved in a major fire, toxic gases (CO, SO₂) could be produced.

Extinguishing Media:

Suitable for the surrounding fire.

Protective Equipment:

Self-contained respiratory equipment.

6) ACCIDENTAL RELEASE MEASURES

Personal Protection:

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

Environmental Precautions:

Prevent large 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. Wash small spillages to drain with copious amounts of water.

Cleaning Up:

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

7) HANDLING AND STORAGE

Handling:

When handling product concentrates, avoid contact with eyes, skin and clothing. Use in a well ventilated area. Avoid contact with the working strength solution. After handling, the routine use of a neutral, (non-alkaline), hand cleanser will minimise the risk of adverse skin reaction.

Storage:

Rollei R³ Fixing Bath **BLACK & WHITE**

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

8) EXPOSURE CONTROLS/PERSONAL PROTECTION

Relevant Exposure Limits:

None.

Engineering Measures:

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

Hand Protection:

Wear impervious gloves when handling concentrates and to prevent contact with the working strength solution.

Eye Protection:

Wear safety glasses with side shields as the minimum level of protection. Provide eye-wash bottles in the immediate working area.

9) PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	colourless liquid
Odour:	acetic acid odour
pH at 20°C:	5.0
Weight per ml at 20°C:	1.35
Freezing Point:	<5°C
Flammability	Not flammable
Solubility in water:	Completely soluble

10) STABILITY AND REACTIVITY

Stability:

Stable under recommended storage conditions.

Materials to avoid:

Avoid contact with strong acids and oxidising agents. Avoid contact of the concentrate and working strength solution with photographic fixer, (Ammonia will be liberated from the fixer)

Hazardous Decomposition Products:

Ammonia Sulphur dioxide on use.

11) TOXICOLOGICAL INFORMATION

Eye Contact:

Rollei R³ Fixing Bath **BLACK & WHITE**

May cause irritation. If eye-washing has not been thorough, corneal clouding may occur (hydroquinone).

Skin Contact:

Prolonged or repeated contact may cause irritation and possible sensitisation.

Ingestion:

Ingestion of the liquid concentrate is likely to cause irritation of the mouth and gastro-intestinal tract. Systemic toxicity is expected to be low.

Inhalation (of the liquid):

Likely to cause irritation and inflammation to mucous membrane. No vapour hazard.

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.

A moderate bio-chemical oxygen demand will result in short term oxygen depletion 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.

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).

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 or on to soil.

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.

Rollei R³ Fixing Bath **BLACK & WHITE**

14) TRANSPORT INFORMATION

Not classified as hazardous for transport purposes.

15) REGULATORY INFORMATION

Observe the normal safety regulations when handling chemicals.

Labelling according EC-Regulations

The product does not require a hazard warning label in accordance with EC
directives/

German regulations on dangerous substances.

Water hazard class (German): 1

16) OTHER INFORMATION

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. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.