

## Rollei R<sup>3</sup> wetting agent BLACK & WHITE

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### 1. IDENTIFICATION OF SUBSTANCE

**Product name/** ROLLEI R<sup>3</sup> HIGH ENERGY WETTING AGENT  
**Trade name**  
**Use for** Photographic bath  
**Manufacturer/Supplier** Hans O. Mahn & Co. KG, Brookstieg 4  
D 22145 Hamburg-Stapelfeld  
**Telephone number** + 49 40 237008-88  
**Fax:** + 49 (40) 237008-488  
**Email:** photo@mahn.net

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### 2. COMPOSITION/DATA ON COMPONENTS

Mixture of substances listed below with nonhazardous additions.

**Description** Mixture with organic substances

**Dangerous components:**

Name	%	CAS-No.	EINECS-No.	EG-Index-No.	Symbols; Dangerous Risks
Acetic acid	50-80	64-19-7	200-580-7	607-002-00-6	C; R 10, 35

**Other Informations:** Main component: Water

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### 3. HAZARDS IDENTIFICATION

**Hazard designation:** Corrosive: Causes burns.

**Information pertaining to particular dangers for man and environment:**

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

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### 4. FIRST AID MEASURES

**General information** Instantly remove any clothing soiled by the product.

**First aid**

<b>general</b>	Fresh air, eventual medical attention
<b>inhalation</b>	Fresh air, treat symptomatically. Get medical attention if symptoms occur.
<b>skin</b>	Wash with plenty of water. Remove and wash contaminated clothing before reuse.
<b>eyes</b>	Flush with plenty of water at last 15 minutes. Get medical attention promptly.
<b>swallowing</b>	Rinse out mouth and then drink plenty of water. Do not induce vomiting; instantly call for medical help.

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### 5. FIRE AND EXPLOSION HAZARD

**Extinguishing media** Use agent appropriate for surrounding.

**Unsuitable extinguishing media** None

**Special fire fighting procedures** Protection against inhalation of the fire gases.

**Unusual fire and explosion hazard** Fire or excessive heat may cause production of hazardous decomposition products ( carbon monoxyde, carbon dioxyde).

**Protective equipment** Impermeable boots and protective equipment.  
Self-contained breathing apparatus.

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### 6. ACCIDENTIAL RELEASE MEASURES

**Person-related safety precautions** Wear suitable individual clothing.

**Measures for environmental protection** Do not allow to enter drainage system, surface or ground water.

**Measure for cleaning/collecting** Collect in a container and disposed of waste.

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### 7. HANDLING AND STORAGE

<b>Handling</b>	Avoid the formation of dust. Avoid contact with eyes, skin and clothing.
<b>Information about protection against explosions and fires</b>	Keep from contact with oxidizing materials.
<b>Storage</b>	Keep container tightly sealed. Temperature of storage: 5 to 25 ° C. Keep away from incompatible substances.

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### 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

#### Additional information about design of technical systems

No further data; see item 7.

#### Components with values that require monitoring at the workplace

64-19-7	Acetic acidic	MAK	25 mg/m <sup>3</sup> 10 ml/m <sup>3</sup>
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#### Additional information:

**Personal protective and hygienic measure**  
The list that were valid during the compilation were used as basis. The usual precautionary measures should be adhered to general rules for handling chemicals. Keep away from foodstuffs, beverages and food. Take off immediately all contaminated clothing. Wash hands during breaks and at the end of the work.

**Breathing equipment**  
In case of insufficient ventilation, wear suitable respiratory equipment. Respirator type: acid gas.

**Protection of hands**  
Protective gloves.

**Eye protection**  
Safety glasses with side shields.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form</b>	Liquid
<b>Colour</b>	Yellow
<b>Odour</b>	Sharp vinegar
<b>pH-value</b>	< 1,0 (at 25 ° C)
<b>Boiling point/boiling range</b>	≥ 100 ° C
<b>Melting point/melting range</b>	≤ 0 ° C
<b>Flash point</b>	Not applicable
<b>Self-inflamability</b>	Product is not self igniting.
<b>Danger of explosion</b>	Product is not explosive.
<b>Vapour pressure</b>	Correspond to vapour pressure of water.
<b>Density</b>	1,07 g/cm <sup>3</sup> (20 ° C)
<b>Solubility in / Miscibility with Water</b>	Fully miscible

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### 10. STABILITY AND REACTIVITY

<b>Thermal decomposition/ conditions to be avoided</b>	No decomposition if used according to specifications.
<b>Dangerous reactions</b>	React with strong bases.
<b>Dangerous products of decomposition</b>	None

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### 11. TOXICOLOGICAL INFORMATION

<b>Acute toxicity</b>	Acetic acid	Oral LD 50	3310 mg/kg (rat)
<b>Primary irritant effect</b>			
<b>on the skin</b>	Causes burns		
<b>on the eyes</b>	Causes burns . Vapour irritating.		
<b>Sensitization</b>	No specific hazard known.		

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### 12. ECOLOGICAL INFORMATION

**General notes**

Water hazard class 1 (German Regulation)  
Do not allow product to reach ground water, water bodies or sewage system.

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### 13. DISPOSAL CONSIDERATIONS

**Product**

Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Must be specially treated under adherence to official regulations.  
09 01 99

**EWC Code:**

**Uncleaned packaging**

Recommendation: Non contaminated packaging can be used for recycling. Empty contaminated thoroughly: They can be recycled after thorough and proper cleaning.

**Recommended cleaning agent:**

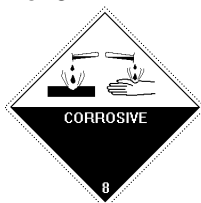
Water, if necessary with cleaning agent.

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### 14. TRANSPORT INFORMATION

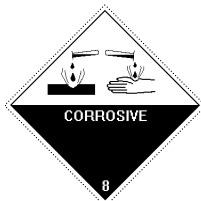
**Land transport**

**ADR/RID - Class** 8  
**Item** 32b  
**UN-Number** 2790  
**Correct technical name** Acetic acid, solution  
**Label** No. 8



**Maritime transport IMDG**

<b>Class:</b>	8	<b>UN-No.:</b>	2790
<b>Packing Group:</b>	II	<b>EmS No.:</b>	8-05
<b>MAFG Tabel No.:</b>	700	<b>Page:</b>	8100
<b>Proper Shipping Name:</b>	Acetic acid solution		
<b>Marine pollutant:</b>	No		
<b>Label</b>	No. 8		



**Air transport ICAO-TI and IATA-DGR**

<b>Class or Division:</b>	8	<b>UN or ID-No.:</b>	2790
<b>Packing group:</b>	II		
<b>Proper Shipping Name:</b>	Acetic acid solution		
<b>PAX / CAO:</b>	809 / 813 (Frachtflugz.)		
<b>Label:</b>	No. 8		

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### 15. REGULATORY INFORMATION

#### Designation according to EC guidelines

The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV).

#### Code letter and hazard designation of product:

C



Corrosive

#### Risk phrases

34

#### Safety phrases

1/2, 26, 36/37/39, 45

#### Water hazard class

1 (Self-assessment): slightly hazardous for water

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### 16. OTHER INFORMATION

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.