

**LP-DOCUFINE HC / Rollei High Contrast Film Developer BLACK AND WHITE****1. IDENTIFICATION OF SUBSTANCE**

**Product name/** LP-DOCUFINE HC / Rollei High Contrast Film Developer  
**Trade name**  
**Use for** Photographic developer  
**Manufacturer/Supplier** Hans O. Mahn & Co KG, Brookstieg 4  
D 22145 Hamburg-Stapelfeld  
**Telephone number** + 49 40 237008-88

**2. COMPOSITION/DATA ON COMPONENTS**

Mixture of substances listed below with nonhazardous additions.

**Description** Mixture with inorganic and organic substances

**Dangerous components:**

Name	%	CAS-No.	EINECS-No.	EG-Index-No.	Symbols; Dangerous Risks
hydroquinone	3	123-31-9	204-617-8	604-005-00-4	Xn, N; R 22-40-41-43,50
Sodium sulphite	15	7757-83-7			
Potassium carbonate	15	584-08-7			

**Other Informations:** Main component: Water

**3. HAZARDS IDENTIFICATION**

**Hazard designation:** Harmful: Possible risk of irreversible effects if swallowed.  
Irritant: Irritating to eyes and skin.  
May cause sensitization by skin contact.

**Information pertaining to particular dangers for man and environment:** The mixture contain hydroquinone. This substance is classified as: carcinogen, category 3 and mutagen, category 3.

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.

**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>	No special measure required.
<b>skin</b>	Wash with water and soap. 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.

**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 monoxide, carbon dioxide, sulphur dioxide).

**Protective equipment** No special measure required.

**Other informations:** Product is not combustible.

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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**

**Handling** Avoid the formation of dust. Avoid contact.

**Information about protection against explosions and fires** No special measures required.

**Storage** No special requirements.

Keep container tightly sealed. Temperature of storage: 5 to 25 °C

**Storage class** Class according to regulation on inflammable liquids: Void.

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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**

None

**Additional information:** The list that were valid during the compilation were used as basis.

**Personal protective rules** The usual precautionary measures should be adhered to general

**and hygienic measure** 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** Not required.

**Protection of hands** Protective gloves.

**Eye protection** Safety glasses

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### **9. PHYSICAL AND CHEMICAL PROPERTIES**

**Form** Liquid

**Colour** Colourless to yellowish

**Odour** Not characteristic

**pH-value** 10,7 (at 25 °C)

**Boiling point/boiling range** ≥ 100 °C

**Melting point/melting range** ≤ 0 °C

**Flash point** Not applicable

**Self-inflamability** Product is not self igniting.

**Danger of explosion** Product is not explosive.

**Vapour pressure** Correspond to vapour pressure of water.

**Density** 1,2 g/cm<sup>3</sup> (20 °C)

**Solubility in / Miscibility with Water** Fully miscible

**Solvent content** None

**Organic solvents**

**Water** 77 %

**Solids content** 23 %

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### **10. STABILITY AND REACTIVITY**

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

**11. TOXICOLOGICAL INFORMATION**

<b>Acute toxicity</b>	Hydroquinone	Oral LD 50	320 mg/kg (rat)
<b>Primary irritant effect</b>			
<b>on the skin</b>	Irritant		
<b>on the eyes</b>	Corrosive		
<b>Sensitization</b>	Sensitization possible by skin contact.		

**12. ECOLOGICAL INFORMATION**

<b>General notes</b>	Water hazard class 1 (German Regulation) Do not allow product to reach ground water, water bodies or sewage system.
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**13. DISPENSAL CONSIDERATIONS**

<b>Product</b>	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.
<b>Uncleaned packaging</b>	Recommendation: Non contaminated packaging can be used for recycling. Empty contaminated thoroughly: They can be recycled after thorough and proper cleaning.
<b>Recommended cleaning agent:</b>	Water, if necessary with cleaning agent.

**14. TRANSPORT INFORMATION**

<b>Transport/Additional information</b>	Not dangerous according to the above specifications.
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**15. REGULATORY INFORMATION****Designation according to EC guidelines**

The product has been classified and labelled in accordance with EC Direktives / Ordinance on hazardous materials (GefStoffV).

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

Xn



Harmful

**Risk phrases**

R 22

**Safety phrases**

S2, 20/21, 39

**Water hazard class**

1 (Self-assessment): slightly hazardous for water

**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.