

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

general	Fresh air, eventual medical attention
inhalation	No special measure required.
skin	Wash with water and soap. Remove and wash contaminated clothing before reuse.
eyes	Flush with plenty of water at last 15 minutes. Get medical attention promptly.
swallowing	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.

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.

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

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/cm³ (20 °C)

Solubility in / Miscibility with Water Fully miscible

Solvent content None

Organic solvents

Water 77 %

Solids content 23 %

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

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

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.
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.

14. TRANSPORT INFORMATION

Transport/Additional information	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.