

## LP-DOCUFINE LC Film Developer BLACK AND WHITE

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### 1. IDENTIFICATION OF SUBSTANCE

**Product name/** LP-Docufine LC Film Developer black and white  
**Trade name**  
**Use for** Photographic developer  
**Manufacturer/Supplier** Hans O. Mahn & Co, Brookstieg 4  
D 22145 Hamburg-Stapelfeld  
**Telephone number** + 49 40 237008-0

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### 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 hydroxide	1	1310-73-2	215-185-5	011-002-00-6	C; R 35
Sodium carbonate	8	497-19-8	207-838-8	011-005-00-2	Xi; R: 36

**Other Informations:** Main component: Water

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### 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.

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### 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.

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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 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** Do not allow to enter drainage system, surface or ground water.

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### protection

**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

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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

11,5 (at 25 °C)

#### Boiling point/boiling range

≥ 100 °C

#### Melting point/melting range

□ 0 °C

#### Flash point

Not applicable

#### Self-inflammability

Product is not self igniting.

#### Danger of explosion

Product is not explosive.

#### Vapour pressure

Correspond to vapour pressure of water.

#### Density

1,210 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

#### 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

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### 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.

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### 12. ECOLOGICAL INFORMATION

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**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.  
**EWC Code:** 09 01 01  
**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

**Transport/Additional information** Not dangerous according to the above specifications.

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### 15. REGULATORY INFORMATION

#### Designation according to EC guidelines

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

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

Xn



Harmful

**Risk phrases**

40, 43, 36/38

**Safety phrases**

2, 26, 36/37/39

**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.