

LP-DOCUFINE LC Film Developer BLACK AND WHITE

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

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

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.

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.

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

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

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/cm³ (20 °C)

Solubility in / Miscibility with

Water

Fully miscible

Solvent content

None

Organic solvents

Water

77 %

Solids content

23 %

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

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

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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.

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.

14. TRANSPORT INFORMATION

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

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

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.