# 24 hour transportation emergency telephone number: Chemtrec 800-424-9300

HANS O. MAHN & CO.

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### LP-Geladur

1. IDENTIFICATION OF SUBSTANCE

Product name/ LP-Black Magic Hardener/ LP-Geladur

Trade name

**Use for** Photographic bath

Manufacturer/Supplier HANS O. MAHN & Co, MACO PHOTO PRODUCTS

Brookstieg 4

D-22145 Stapelfeld/Hamburg

**Telephone number** + 49 40 237 00888

2. COMPOSITION/DATA ON COMPONENTS

Mixture of substances listed below with harmless additions.

**Description** Solution with inorganic and organic substances

Hazardous ingredients:

Name	%	CAS-No.	EINECS	EG-Index	Symbol; Risk Phrases (see chapter 16)
Acetic acid	1- 2	64-19-7	200-580-7	607-002-00-6	C; R 10, 35
Glutaraldehyde	2- 5	111-30-8	203-856-5	605-022-00-X	T, N; R23/25, 34, 42/43, 50
Sodium disulphite	5-10	7681-57-4	231-673-0		Xn; R22, 31, 37, 41

Additional informations: Main component: Water

3. HAZARDS IDENTIFICATION

**Hazard designation:** Harmful: Harmful by inhalation and if swallowed.

Irritant: Risk of serious damage to eyes.

Irritating to respiratory system and skin. May cause sensitization by

inhalation and skin contact.

Information pertaining to particular Avoid contact with skin. Do not breathe vapour/aerosol.

dangers for man and environment:

Classification system: 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:** Change out of contaminated, saturated clothing.

Seek medical advice.

**on inhalation:** Move to fresh air. Get medical attention if symptoms occur.

on contact with skin: On contact with the skin, wash off immediately with soap and water.

Remove and wash contaminated clothing before

reuse.

on contact with eyes: On contact with the eyes, rinse thoroughly with plenty of water and

seek medical advice.

If irritation of the eyes occurs, seek ophthalmological advice.

**if swallowed:** Rinse out mouth and then drink plenty of water.

Do not induce vomiting. Seek medical advice.

Information for the doctor:

**symptoms:** No known symptoms to date.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media: Extinguishing media which must Co-ordinate fire-fighting measures to the fire surroundings.

Unknown.

not be used for safety reasons:

**Special exposure hazards arising** Substances potentially set free in case of fire: **from the substance or preparation** carbon mono oxide, carbon dioxide, sulphur dioxide.

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itself, combustion products,

resulting gases:

Special protective equipment

for firefighting:

No special measures required.

Additional information: Product itself does not burn.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Use personal protective clothing.

**Environmental precautions:** Do not allow to enter drains/surface waters/groundwater.

Methods for cleaning up/ Pick up with absorbent material (e.g. sand, kieselguhr, sawdust,

general-purpose binder). taking up:

**Additional informations:** Treat recovered material as prescribed in: Disposal considerations.

7. HANDLING AND STORAGE

Hints for safe handling: No special precautions required if used correctly.

Product is not combustible. Hints for protection against fire

and explosion:

Requirements for storage rooms No special measures required.

Keep container tightly closed and vessels: Hints on storage assembly: No special precautions required.

Additional informations: Storage temperature: from 5 to 25 °C.

Storage class German regulation: LGK 12

8. EXPOSURE LIMITATION AND PERSONAL PROTECTIVE EQUIPMENT

**Additional information** See section 7; no additional measures necessary.

on plant design:

Constituents with occupational **UK Occupational Exposure Limits:** 

exposure limits requiring TWA (8 hours): Glutaraldehyde: 0,05 mg/m<sup>3</sup> STEL (15 min). Glutaraldehyde: 0,05 mg/m<sup>3</sup> monitoring:

Personal protective equipment:

Respiratory protection: Respiratory protection necessary at: unsufficient ventilation.

Hand protection: Gloves. Necessary properties: Moisture-proof.

Safety glasses. Eye protection:

Protective clothing: Personal protective clothing.

General health and Do not eat, drink, smoke or take snuff while working. safety measures: Wash hands before breaks and on finishing work. Preventive skin protection using barrier ointment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form Liquid.

Colour Colourless, clear. Odour Pungent. at 20°C 3,1 pH-value > 100 °C Boiling point/boiling range Melting point/melting range < 0 °C Flash point Not applicable

Self-inflammability Not selfigniting. Danger of explosion Not explosive.

Vapour pressure Remark: Corresponding to vapor pressure of water.

at 20°C 1,058 g/cm<sup>3</sup> Density

Solubility in / Miscibility with

Water Fully miscible Solvent content No dates available. **Additional informations:** No additional dates

10. STABILITY AND REACTIVITY

**Stability** No decomposition if used according to specifications.

Conditions to avoid Contact with strong alkali. HANS O. MAHN & CO.

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Materials to avoid

Hazardous decomposition

products:

Strong alkali.

None.

Further informations No hazardous decomposition products if stored and handled as

prescribed.

#### 11. TOXICOLOGICAL INFORMATION

**Acute toxicity** Information concern to the main component.

Glutaraldehyde (50 % water)

320 mg/kg (rat) oral LD 50 dermal rabbit > 2000 mg/kg

Specific symptoms in animal studies:

Irritant-/corrosive effects:

to skin Irritant.

to eye Strong irritant and risk of serious damage to eyes.

Sensitization Sensitising effect by skin contact and to the respiratory system. Unknown.

Subacute to chronical

toxicity:

Carcinogenic, mutagenic and reproductive toxic

effects:

Unknown

Additional information No additional dates. Experiences made in practice: No dates available.

General remarks:

procedure

The product was classified on the basis of the calculation

of the preparation directive (1999/45/EEC).

12 ECOLOGICAL INFORMATION

No dates available.

Other hints: The product was not tested.

> According to the criteria of the European classification and labelling system (1999/45/EEC), the substance/the product has not to be

labelled as "dangerous for the environment".

Remarks: 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.

**European Waste Catalogue EWC** 

09 01 01 Water based developer and activator solutions Uncleaned packaging

Recommendation: Non contaminated packaging can be used for

recycling. Empty contaminated thoroughly: They can be recycled

after thorough and proper cleaning.

Water, if necessary with cleaning agent. Recommended cleaning agent:

14. TRANSPORT INFORMATION

No hazardous material as defined by the transport regulations Transport/additional remarks:

(ADR/RID, IMDG-Code, ICAO-TI/IATA-DGR)

15. REGULATORY INFORMATION

Labelling EC

The product has been classified and labelled in accordance with

Directives / Ordinance on Hazardous Materials (GefStoffV).

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Hazard(ous) symbol(s) and indication(s) of danger for dangerous substances and preparations:

Χn

X

Hazardous component (s) to be indicated on label:

Glutaraldehyde

**R-Phrases:** R20/22 Harmful by inhalation and if swallowed.

R37/38 Irritating to respiratory system and skin. Risk of serious damage to eyes.

R42/43 May cause sensitization by inhalation and

skin contact.

**S-Phrases:** S23 Do not breathe vapour.

S26 In case of contact with eyes, rinse

immediately with plenty of water and seek

medical advice.

S36/37/38 Wear suitable protective clothing, gloves

and eye/face protection.

S45 In case of accident or if you feel unwell,

seek medical advice immediately (show the

label where possible).

Remark: The classification carried out according to calculation procedure of

the preparation directive (1999/45/EEC).

Special provisions concerning

the labelling of certain

preparations:

National regulations:

Water hazard class 3 (Self-assessment): extremely water hazardous

Not applicable.

(German regulation: Classification according VwVwS, Annex 4)

Other regulations, restrictions and prohibition regulations:

Unkwnon.

16. OTHER INFORMATION

Intended use: Photographic bath

**Wording of R-Phrases:** R23/25 Toxic by inhalation and if swallowed.

(see chapter 2) R34 Causes burns. R36 Irritating to eyes.

R42/43 May cause sensitization by inhalation and

skin contact.

R50 Very toxic to aquatic organisms.

### **Additional 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.

**Documentation** 

Sources of documentation: physical examinations, Material safety data sheets of the

components,

EC-Directives.

Amendment First issue.