

Material Safety Data Sheet

According to 91/155 EC

Printing date 04.02.2004

Reviewed on 03.02.2004

1 Identification of substance:

- **Product details:**
- **Trade name:** LP-FIX NEUTRAL
- **Application of the substance / the preparation** Photographic fixer
- **Manufacturer/Supplier:**
HANS O. MAHN & CO. KG
Brookstieg 4
D 22145 Stapelfeld
- **Informing department:** Tel: +49 (0)40 23700888
- **Emergency information:** Tel: +49 (0)40 23700888

2 Composition/Data on components:

- **Chemical characterization**
- **Description:** Mixture of the substances listed below with harmless additions.

- **Dangerous components:**

CAS: 64-19-7 EINECS: 200-580-7	acetic acid, of a concentration of	C; R 10-35	2.0-5.0%
CAS: 7681-57-4 EINECS: 231-673-0	disodium disulphite	Xn; R 22-31-41	2.0-5.0%

- **Additional information** For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

- **Hazard designation:** void
- **Information pertaining to particular dangers for man and environment**
The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- **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** No special measures required.
- **After inhalation** Supply fresh air.
- **After skin contact** The product is not skin irritating.
- **After eye contact** Rinse opened eye for several minutes under running water.
- **After swallowing** Rinse out mouth and then drink plenty of water.
- **Information for doctor** None

5 Fire fighting measures

- **Suitable extinguishing agents** Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents** None
- **Special hazards caused by the material, its products of combustion or resulting gases:**
Can be released in case of fire
Sulphur oxides (SO_x)
Nitrogen oxides (NO_x)
- **Protective equipment:** No special measures required.
- **Additional information** The product is not flammable

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6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:**
Do not allow to enter drainage system, surface or ground water.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **Additional information:** No dangerous materials are released.

7 Handling and storage

- **Handling**
- **Information for safe handling:** No special measures required.
- **Information about protection against explosions and fires:** The product is not flammable
- **Storage**
- **Requirements to be met by storerooms and containers:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Store in a cool place.
(5 - 30°C)
- **Storage class** LGK 12 (VCI-Concept)

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

- **Components with limit values that require monitoring at the workplace:**

64-19-7 acetic acid, of a concentration of	
OES	Short-term value: 37 mg/m ³ , 15 ppm
	Long-term value: 25 mg/m ³ , 10 ppm
	ILV
7681-57-4 disodium disulphite	
OES	Long-term value: 5 mg/m ³

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

- **Personal protective equipment**
- **General protective and hygienic measures**
The usual precautionary measures should be adhered to general rules for handling chemicals.
- **Breathing equipment:** Not required.
- **Protection of hands:**
Protective gloves.
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
- **Material of gloves**
Natural rubber, NR
Nitrile rubber, NBR
PVC gloves
- **Penetration time of glove material**
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Safety glasses
- **Body protection:** Light weight protective clothing

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9 Physical and chemical properties:

· General Information

Form:	Fluid
Colour:	Light yellow Clear
Odour:	Not characteristic

· Change in condition

Melting point/Melting range:	Not determined
Boiling point/Boiling range:	> 100°C

· **Flash point:** Not applicable

· **Self-inflammability:** Product is not selfigniting.

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

· Critical values for explosion:

Oxidizing properties None

· **Vapour pressure at 20°C:** 23 hPa

· **Density at 20°C** 1.329 g/cm³

· Solubility in / Miscibility with

Water: Fully miscible

· **pH-value at 25°C:** 6.6

· Viscosity:

dynamic: Not determined
kinematic: Not determined

· Solvent content:

Organic solvents: 2.9 %
Water: 46.2 %

· **Solids content:** 50.9 %

10 Stability and reactivity

· Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

· Dangerous reactions

Reacts with acids releasing sulphur dioxide

Reacts with alkalis releasing ammonia

· **Dangerous products of decomposition:** None

11 Toxicological information

· Acute toxicity:

· Primary irritant effect:

· **on the skin:** No irritant effect.

· **on the eye:** No irritant effect.

· **Sensitization:** No sensitizing effect known.

· Additional toxicological information:

The product is not subject to classification according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

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12 Ecological information:

- **Information about elimination (persistence and degradability):** Not determined
- **Behaviour in environmental systems:** Not determined
- **Mobility and bioaccumulation potential:** Not determined
- **Ecotoxicological effects:** Not determined
- **Aquatic toxicity:** Not determined
- **Behaviour in sewage processing plants:** Not determined
- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

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**

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- **Uncleaned packagings:**
- **Recommendation:**
Non contaminated packagings can be used for recycling.
Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.
- **Recommended cleaning agent:** Water, if necessary with cleaning agent.

14 Transport information

- **Land transport ADR/RID (cross-border)**
- **ADR/RID-GGVS/E Class:** -
- **Maritime transport IMDG:**
- **IMDG Class:** -
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -

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

15 Regulatory information

- **Designation according to EC guidelines:**
Observe the normal safety regulations when handling chemicals
The product is not subject to classification according to the calculation methods of the "General Classification Guideline for Preparations of the EC" as issued in the last version.
- **Special designation of certain preparations:**
Safety data sheet available for professional user on request.
- **National regulations**
- **Technical instructions (air):**

Class	Share in %
II	2.9

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Water hazard class: 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.

Relevant R-phrases

- 10 Flammable.
- 22 Harmful if swallowed.
- 31 Contact with acids liberates toxic gas.
- 35 Causes severe burns.
- 41 Risk of serious damage to eyes.

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