

Commercial product name:	<b>Permanent marker Ink in edding 390</b>	Date: 03.05.96
Product No.:		
Producer/ supplier:	edding AG	Date of revision: 13.07.98

## 1 Identification of the substance/preparation and of the company/undertaking

### 1.1 Identification of the substance or preparation:

edding permanent marker ink, four colours

### 1.2 Company/undertaking identification:

edding Aktiengesellschaft, D-22923 Ahrensburg, Germany

## 2 Composition/information on ingredients

Chemical characterisation:

☐ substance  
☒ preparation

Mixture of dyestuff, organic solvent and binding agent

1-Methoxy-2-propanol	Cas No. 107-98-2
Ethanol	Cas No. 64-17-5
4-Hydroxy-4-methyl-pentan-2-on	Cas No. 123-42-2

## 3 Hazards identification

R 11 = extrem flammable

## 4 First-aid measures

Inhalation: Provide for fresh air - in case of symptoms consult a doctor

Skin contact: remove affected clothes and wash skin with water and soap

Eye contact: Rinse with plenty of clean water for 15 minutes, consult a doctor

If swallowed: induce vomiting, consult a doctor immediately

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## 5 Fire-fighting measures

Suitable extinguishing agents: Water jet, foam, CO<sup>2</sup>, extinguishing powder  
 Protective equipment: In case of fire breathing equipment is required.  
 Further information: Do not allow contaminated extinguishing water to reach ground water, water bodies or sewage system. Cool container with water. For surrounding fire use more foam because the foam can be destroyed.

## 6 Accidental release measures

Personal protective measures: Provide for sufficient ventilation.  
 Environmental protective measures: Do not allow large quantities of ink to reach ground water, water bodies or sewage system.  
 After spillage/leakage: Wipe off with absorbent material (sand, universal binders). As known any dyestuff should be treated as special refuse. Local regulations should be observed.

## 7 Handling and storage

### 7.1 Handling:

Fire and explosion protective measures: Provide for good ventilation on working and storage place. Protect against electrostatic charges. Keep away from sources of ignition.  
 Usual safety measures for handling chemicals should be observed.

### 7.2 Storage:

Keep container tightly closed. Store at a dry, cool and ventilated place.

## 8 Exposure controls and personal protection

8.1 Engineering measures: N.D.

8.2 Specific control parameters/ limit values:

1-Methoxy-2-propanol MAK: 100 ml/m<sup>3</sup> = 375 mg/m<sup>3</sup> (Germany)  
 Ethanol MAK: 1000 ml/m<sup>3</sup> = 1900 mg/m<sup>3</sup> (Germany)  
 4-Hydroxy-4-methyl-pentan-2-on: MAK 50 ml/m<sup>3</sup> = 240 mg/m<sup>3</sup> (Germany)  
 Values and further information of TRGS 900 (Germany) should be observed.

8.3 Personal protective equipment:

Hand protection: rubber gloves  
 Eye protection: safety glasses  
 General measures: Contact with skin, eyes and clothes should be avoided.

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## 9 Physical and chemical properties

- 9.1 Appearance: physical state: coloured liquid  
 colour: various (1-4)  
 odour: like alcohol
- 9.2 Safety parameters: pH (at 200 g/l, 20°C): 4,1 - 6,4 = 0,2
- change in physical state: boiling point: ~80°C  
 melting point: N.D.
- flash point: <20°C (DIN 51755)
- flammability: N.D.
- autoflammability: N.D. (DIN 51 794)
- ignition temperature: N.D.
- explosion limits: lower: N.D. / upper: N.D.
- vapour pressure (20°C): <10 mbar
- relative density: 0,884 -0,933 g/cm<sup>3</sup>
- oxidising properties: N.D.
- solubility: in water: miscible  
 soluble in organic solvents
- 9.3 Other data: Viscosity (20°C): < 15 mPas

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## 10 Stability and reactivity

Hazardous reaction in case of influence of oxidizing substances.

## 11 Toxicological information

Acute toxicity of the preparation is not determined (no inhalation, ingestion or skin irritation tests).

High concentration causes narcotic effects. Skin resorption is possible.

## 12 Ecological information

Without addition of halogenes. Ink is slightly water pollutant.

If small concentration of ink is properly introduced into a biological purification plant, bio-degradation should not be disturbed.

## 13 Disposal considerations

As known any dyestuff should be treated as special refuse. Local regulations should be observed.

Waste disposal key number: 55370 (Germany)

After being completely discharged contaminated packaging should be disposed as special refuse according to official regulations.

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## 14 Transport information

Seatransport:  
GGVSea/ IMDG-Code: Class : 3.2 UN-No. 1263  
EMS: 3-06 MFAG: 330

Marine pollutant: no.  
right technical name: colour related substances

Overland transport: Class: 3  
(ADR / RID / GGVS/ GGVE) figur/character: 5 b  
indication of goods: Permanent ink, contains 4-Hydroxy-4-methyl-pentan-2-on

Airtransport:  
ICAD/ IATA-Code: Class: 3 UN-No. 1263  
right technical name: colour related substances

## 15 Regulatory information

### 15.1 Classification, packaging and labelling of dangerous substances and preparations according to EC-Directives:

Hazards identification: flammable Liquid, Class 3  
R-phrases: R 11 - extrem flammable  
S-phrases: S16 - Keep away from sources of  
ignition - do not smoke  
S24/25 - Avoid contact with skin  
and eyes

15.2 Further information:  
Marine pollution class: WGK 1 - Germany - self assessment

## **EC - Safety data sheet**

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## 16 Other information

To the best of our knowledge, the information contained herein is accurate. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used in caution, although certain hazards are described herein, we can not guarantee that these are the hazards which exist. This data sheet is a translation of the german version - no guarantee of correct translation.