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edding International GmbH

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Ahrensburg, 03.04.2002

Dear Sirs,

We refer to your request regarding the EC Safety Data Sheets that we provide for the ink used in our pens.

As products, writing utensils and markers do not fall under the European Dangerous Preparations Directive so there is no need to issue Safety Data Sheets.

For this reason we are enclosing EC Safety Data Sheets for the inks which are used in the pen concerned.

Please bear in mind that the information on the data sheet relates to the handling of large quantities of liquid in bulk, or so-called large units.

However, our articles only contain a comparatively small quantity of the inks so most of the information is not relevant to you.


Assuming our products are used and stored in a normal way they are not dangerous.

Best regards
edding International GmbH



Steffen Suse
Head of Product Development



Legamaster 

Geschäftsführer: Wolfgang J. Tenbusch, Ralf Oster • Sitz der Gesellschaft: Ahrensburg • Handelsregister Ahrensburg HRB 3930

Commercial product name:	Permanent marker Ink	
Product No.:	in edding 300/330	Date: 03.05.96
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, CO², 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/m³ = 375 mg/m³ (Germany)

Ethanol MAK: 1000 ml/m³ = 1900 mg/m³ (Germany)

4-Hydroxy-4-methyl-pentan-2-on: MAK 50 ml/m³ = 240 mg/m³ (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/cm³
- 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.