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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



Commercial product name:	Permanent Markers	
Product No.:	edding T25 /MTK 25	Date: 08/24/1994
Producer/ supplier:	edding AG	Date of revision: Jan07/2000

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

### 1.1 Identification of the substance or preparation:

edding permanent marker ink, various colours

### 1.2 Company/undertaking identification:

edding Aktiengesellschaft, D-22923 Ahrensburg, Germany

## 2 Composition/information on ingredients

Chemical characterization:  
solution of dyestuffs, resin and organic solvent

substance  
 preparation

Dangerous substance:  
1-Methoxy-2-propanol CAS-No. 107-98-2 / 60-80 wt% / R-phrases: 10

## 3 Hazards identification

R 10 - 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.

Commercial product name: **refill ink for edding permanent markers**

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## 5 Fire-fighting measures

Suitable extinguishing agents: water jet, foam, CO<sub>2</sub>, 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.

## 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.

Keep away from sources of ignition.

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.

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## 8 Exposure controls and personal protection

8.1 Engineering measures: n.a.

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)  
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.

## 9 Physical and chemical properties

9.1 Appearance:	physical state:	liquid
	colour:	various (col. 1-20)
	odour:	like alcohol
9.2 Safety parameters:	change in physical state:	boiling point: 100 -120 °C
	flash point:	25 - 35 °C (DIN 51 755)
	ignition temperature:	> 270 °C (DIN 51 794)
	explosion limits:	lower: n.d. / upper: n.d.
	vapour pressure:	< 60 mbar (at 20 °C)
	relative density:	0,94 - 0,98 g/ml (at 20 °C)
	solubility:	soluble in organic solvents/ miscible in water
	pH (at 200g/l, 20°C):	5 - 8
9.3 Other data:	viscosity:	3 - 8 mPa s (at 20 °C)

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## 10 Stability and reactivity

Stable when handled and stored according to regulations.

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 heavy metals or halogenes. Ink is slightly water pollutant.

Do not allow large quantities of ink to reach ground water, water bodies or sewage system.

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

### Overland transport:

ADR/ RID/ GGVS/ GGVE                      class: 3                      figure, character: 31 c

indication of goods: permanent marker ink, contains 1-Methoxy-2-propanol

### Seatransport:

IMDG/ GGVSee                                      class: 3.3                                      UN-No.: 1263  
EMS: 3-06    MFAG: 305

marine pollutant:    no  
right technical name: colour related substances

### Airtransport:

ICAD/ IATA    class: 3    UN-/ ID-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:

label of danger:    No labelling required.  
R-phrases:            R 10 - Flammable  
S-phrases:            S 16 - Keep away from sources of ignition - do not smoke.  
                              S 24/25 - Avoid contact with skin and eyes.

### 15.2 Further information: water hazard class (Germany): WGK 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. This data sheet is a translation of the german version - no guarantee of correct translation.