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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

Commercial product name: **UV marker ink**Product No.: **edding 8280**

Date: 1999-Aug-06

Date of revision: 1999-Nov-11

Producer/ supplier: **edding AG**

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

1.1 Identification of the substance or preparation: UV marker ink, e-8280

1.2 Company/undertaking identification: edding Aktiengesellschaft
D-22923 Ahrensburg
Germany

2 Composition/information on ingredients

Chemical characterisation: substance
Mixture of dyes and resin in organic solvent preparation

Designation	CAS No.	Symbol	R/S-Phrases
xylene ,mixture of isomers	1330-20-7	Xn	20/21 38
Ethanol	64-17-5		
1-Methoxy-2-propanol	107-98-2		
Cyclohexanone	108-94-1	Xn	20
2-Butoxy-ethylacetat	112-07-2	Xn	20/21

3 Hazards identification

F Highly flammable liquid
Xn harmful

Special notes on dangers to both humans and environment:

R11 Highly flammable.
R 20/21 Harmful on inhalation and in contact with skin
R38 Irritating to skin

4 First-aid measures

Inhalation: Move to fresh air.
Eyes: Immediately rinse with plenty of water and seek medical advice.
Skin: Wash off immediately with soap and plenty of water.
Ingestion: Rinse mouth. drink plenty of water.
General advice: Take off all contaminated clothing immediately.

5 Fire-fighting measures

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Extinguisher Type: Dry foam, carbon dioxide, dry powder, water spray

6 Accidental release measures

Personal precautions: Ensure adequate ventilation.

Environmental precautions: Prevent product from entering drains.

Methods for cleaning up: Soak up with inert absorbent materials (e.g. sand, silica gel, acid binder, universal binder, sawdust).

7 Handling and storage

7.1 Handling: Provide sufficient air exchange and/or exhaust in work rooms.
Keep away from sources of ignition – No smoking.

Take precautionary measures against static discharges.

7.2 Storage: Keep container tightly closed in a dry, cool and well-ventilated place.
xxxxxA II

8 Exposure controls and personal protection

8.1 Engineering measures: N.D.

8.2 Specific control parameters/ limit values:

Name	CAS-No.	value/unit
xylene, mixture of isomers	1330-20-7	100 ml/m ³ 440 mg/m ³

8.3 Personal protective equipment:

Eye protection: tightly fitting safety goggles

Hand protection: rubber gloves

Others: Handle in accordance with good industrial hygiene and safety practice

9 Physical and chemical properties

9.1 Appearance: physical state: liquid

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colour: colourless

odour: unspecific

pH: 6.5

change in physical state: boiling point: 88 °C

flash point: 20 °C

flammability: flammable

explosion limits: lower n.d. %

upper n.d. %

relative density: 0.910 g/cm³

Viscosity: 12,0 sec/mm

solubility: in water: no

10 Stability and reactivity

Incompatible with strong acids and oxidizing agents.

11 Toxicological informationLD₅₀ oral mouse n.d.LD₅₀ oral rat n.d.

Inhalation of vapours in high concentration can cause narcotic effects and metabolic acidosis. Irritating to eyes.

12 Ecological information

Slightly water contaminating

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment places.

Water contaminating class: 1 (self estimation)

13 Disposal considerations

Can be incinerated, when in compliance with the Environment Protection Act 1990 (Process Guidance Note IPRS/1)

Cardboard boxes can be transported/delivered by a registered waste carrier to local recycling facilities.

14 Transport information

GGVSea/ IMDG-Class: 3.2

Page-No. of IMDG-Code:

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UN-No.: 1263

ICAO/ IATA-Code: Class 3

GGVE/ GGVS (Germany): Marine pollutant: no

RID/ ADR (EC): class 3 Item 5b UN-No.: 1263

EmS-No. (Emergency schedule): 307

MFAG: 310

Original Name: paint related material

15 Regulatory information

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

Labeling due to EEC directives

Identification letter and danger description of the product:

F highly flammable

Xn harmful

For labeling purposes components which makes substances contains:

1: Xylene, mixture of isomers (when flash point >21°C)

Hazards identification:

R-Phrases:

R11 Highly flammable.

R 20/21 Harmful on inhalation and in contact with skin

R38 Irritating to skin

S-Phrases:

S-16: Keep away from sources of ignition – No smoking.

S-26: In case of contact with eyes rinse immediately with plenty of water and seek medical advice

S-51: Use only in well-ventilated areas.

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

EC – Safety data sheet

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Commercial product name: UV marker Ink

Product No.: edding 8280

Date: 1999-Aug-08

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certain hazards are described herein, we can not guarantee that these are the hazards which exist.