

Trade name: Ink Permanent 2200 (green)

Version: 1.0.0 / GB Status: 17.06.2008

# 1.) <u>Identification of the substance/preparation and of the</u>

# company/undertaking

Identification of the substance or preparation

Trade name

Ink Permanent 2200 (green) contained in: edding 21, edding 22

Use of the substance/preparation

Refilling ink

#### Company/undertaking identification

**Address** 

edding Aktiengesellschaft

Bookkoppel 7

D-22926 Ahrensburg

Telephone no. +49 (0) 41 02 / 80 8-0

# Information provided by / telephone

+49 (0)4102 - 808-0

#### **Emergency telephone**

+49 (0)30 192 40 (Toxic Substance Emergency Call Centre Berlin)

# **Advice on Safety Data Sheet**

sdb\_info@umco.de

# 2.) Hazards identification

Classification

F; R11 Highly flammable.

**Hazard symbols** 

F Highly flammable

R phrases

11 Highly flammable.

# 3.) Composition / information on ingredients

#### **Chemical characterization**

Mixture (preparation)

## **Hazardous ingredients**

**ETHANOL** 

EC no. 200-578-6 Index no. 603-002-00-5 CAS no. 64-17-5 Concentration > 50 < 60 %-b.w.

Classification F; R11

Hazard symbols F R phrases 11

1-METHOXY-2-PROPANOL

EC no. 203-539-1 Index no. 603-064-00-3 CAS no. 107-98-2

Concentration > 25 < 30 %-b.w.

Classification R10

Hazard symbols - R phrases 10

## Other information (chapter 3.)

The product is an article. The data subject of this Material Safety Data sheet refer to the ink contained in this product (marker).



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# 4.) First aid measures

#### **General information**

In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing.

#### After inhalation

Remove affected person from the immediate area. Ensure supply of fresh air.

#### After skin contact

Wash off immediately with soap and water. Do NOT use solvents or thinners!

#### After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.).

## After ingestion

Rinse mouth thoroughly with water. Summon a doctor immediately. Never give anything by mouth to an unconscious person.

# 5.) Fire-fighting measures

#### Suitable extinguishing media

Alcohol-resistant foam; extinguishing powder; Carbon dioxide; Water spray jet

## Extinguishing media that must not be used for safety reasons

Full water jet

# Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

In the event of fire, the following can be released:

Carbon dioxide (CO2)

Carbon monoxide (CO)

## Special protective equipment for fire-fighters

Use self-contained breathing apparatus. Wear protective clothing.

#### Other information

Cool endangered containers with water spray jet. Suppres gases/vapours/mists with water spray jet.

# 6.) Accidental release measures

#### Personal precautions

Refer to protective measures listed in sections 7 and 8. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Keep away sources of ignition.

#### **Environmental precautions**

Do not discharge into the drains/surface waters/groundwater.

#### Methods for cleaning up/taking up

Take up with absorbent material (e.g., sand, kieselguhr, universal binder). Send in suitable containers for recovery or disposal.

# 7.) Handling and storage

# Handling

#### Advice on safe handling

Provide good ventilation of working area (local exhaust ventilation, if necessary). If workplace exposure limits are exceeded, respiratory protection approved for this particular job must be worn. Product inherent handling risks must be minimised taking the appropriate measures for protection and preventive actions. The working process should be designed to rule out the release of hazardous substances or skin contact as far it is possible by the by the state of the art



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#### Advice on protection against fire and explosion

Vapours can form an explosive mixture with air. Take precautionary measures against static charges. Keep away from sources of heat and ignition. Use explosion-proof equipment/fittings and non-sparking tools.

#### Storage

#### Requirements for storage rooms and vessels

Containers which are opened must be carefully resealed and kept upright to prevent leakage. Always keep in containers of same material as the original one.

#### Advice on storage assembly

Do not store together with:

Acids **Alcalies** 

Oxidizing agents

#### Further information on storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place. Protect from heat and direct sunlight.

#### 8.) **Exposure controls / personal protection**

#### **Exposure limit values**

#### **ETHANOL**

CAS no. 64-17-5 EC no. 200-578-6

# Occupational Exposure Standards (OESs) / EH40

Ethanol

**TWA** 1920 1000 ml/m<sup>3</sup> mg/m<sup>3</sup>

1-METHOXY-2-PROPANOL

CAS no. 107-98-2 EC no. 203-539-1

2000/39/EWG

1-Methoxypropanol-2

**TWA** 100 ml/m<sup>3</sup> 375 mg/m<sup>3</sup> STEL 568 mg/m<sup>3</sup> 150 ml/m3 Skin

Skin resorption /

sensibilisation

# Occupational Exposure Standards (OESs) / EH40

1-Methoxypropan-2-ol

TWA 375 mg/m<sup>3</sup> 100 ml/m<sup>3</sup> **STEL** 560 mg/m<sup>3</sup> 150 ml/m3 Skin resorption / Sk

sensibilisation

## Personal protective equipment

## Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.



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#### Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective glove should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves. Appropriate Material butyl rubber

#### Eye protection

Safety glasses with side protection shield (EN 166)

#### Skin protection

Clothing as usual in the chemical industry.

## General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Avoid contact with eyes and skin. Remove soiled or soaked clothing immediately. Do not inhale vapours. Clean skin thoroughly after work; apply skin cream.

%

3

# 9.) Physical and chemical properties

#### **General information**

Form liquid
Colour green
Odour characteristic

#### Important health, safety and environmental information

Change	a in	nhva	iaal	24242
Change	S 1111	DIIVS	IC:AI	SIALE

Type Value Pressure	Boiling >	g point 1013		70 hPa	C
Flash point Value Method	< Abel-F	Pensky		21	C
Vapour pressure Value Reference temperature	<	50		110 ℃	kPa
<b>Density</b> Value Reference temperature		0,80 20	-	1,20 ℃	g/cm³
Viscosity Type Value Method Reference temperature	Efflux DIN co	time 12 up 4 mm 20	-	© 80	sec
Solvent separation test					

#### Other information

Value

The physical data is that of the main component/s.

# 10.) Stability and reactivity

#### Materials to avoid

Acids; Alcalis; Oxidizing agents



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#### **Hazardous decomposition products**

No hazardous decomposition products known.

# 11.) <u>Toxicological information</u>

#### **Experience in practice**

Inhalation of solvent vapours in higher concentration may lead to nausea, headache, drowsiness and dizziness.

Repeated and prolonged skin contact may cause removal of natural fat from the skin and irritation of the skin.

## Other information (chapter 11.)

Product specific toxicological data are not known.

# 12.) Ecological information

#### Other adverse effects

Ecological data are not available.

Do not discharge product unmonitored into the environment.

# 13.) Disposal considerations

#### **Product**

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

#### **Packaging**

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

F1

# 14.) Transport information

#### Land transport ADR/RID

Class 3 Classification code
Packaging group II
Hazard id. no. 33

Hazard id. no. 33
Label 3
UN number 1263

Technical name Paint related material

Special Provision 640 D

# **Marine transport IMDG**

Class 3
Packaging group II
UN number 1263

Proper shipping name Paint related material

EmS F-E, S-E MARPOL -- 3

Air transport ICAO/IATA

Class 3
Packaging group II
UN number 1263

Proper shipping name Paint related material

Label



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# 15.) Regulatory information

# Labelling in accordance with EC directives

The product is classified and labelled in accordance with EC Directive 1999/45/EC.

The product is an article. The data subject of this Material Safety Data sheet refer to the ink contained in this product (marker).

**Hazard symbols** 

F Highly flammable

R phrases

11 Highly flammable.

S phrases

Keep container tightly closed.Use only in well-ventilated areas.

# Council Directive 96/82/EC on the control of major-accident hazards involving dangerous

substances

Remarks Annex I, part 2, category 7 b

# 16.) Other information

# Sources of key data used to compile the data sheet:

EC Directive 67/548/EC resp. 99/45/EC as amended in each case.

Regulation (EC) No 1907/2006 (REACH) as amended in each case.

EC Directives 2000/39/EC, 2006/15/EC as amended in each case.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

#### Relevant R-phrases (chapter 3):

10 Flammable.11 Highly flammable.

#### Department issuing safety data sheet

**UMCO Umwelt Consult GmbH** 

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This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.