

Trade name: Ink Permanent 2201 (black)

Version: 1.0.0 / GB

Status: 17.06.2008

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

Identification of the substance or preparation

Trade name

Ink Permanent 2201 (black)
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	> 10	< 30	%-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	> 30	< 50	%-b.w.		
Classification	R10				
Hazard symbols	-	R phrases	10		

Poly(oxy-1,2-ethanediyl), .alpha.-decyl-.omega.-hydroxy-, phosphate

EC no.	-	Index no.	-	CAS no.	52019-36-0
Concentration	> 1	< 5	%-b.w.		
Classification	Xi; R38	Xi; R41			
Hazard symbols	Xi	R phrases	38-41		

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Other information (chapter 3.)

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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. Suppress 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

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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

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	mg/m ³	1000	ml/m ³

1-METHOXY-2-PROPANOL

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

2000/39/EWG

1-Methoxypropanol-2				
TWA	375	mg/m ³	100	ml/m ³
STEL	568	mg/m ³	150	ml/m ³
Skin resorption / sensibilisation	Skin			

Occupational Exposure Standards (OESs) / EH40

1-Methoxypropan-2-ol				
TWA	375	mg/m ³	100	ml/m ³
STEL	560	mg/m ³	150	ml/m ³
Skin resorption / sensibilisation	Sk			

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.

9.) Physical and chemical properties

General information

Form	liquid
Colour	black
Odour	characteristic

Important health, safety and environmental information

Changes in physical state

Type	Boiling point		
Value	>	70	°C
Pressure	1013	hPa	

Flash point

Value	<	21	°C
Method	Abel-Pensky		

Vapour pressure

Value	<	110	kPa
Reference temperature	50	°C	

Density

Value	0,80	- 1,20	g/cm³
Reference temperature	20	°C	

Viscosity

Type	Efflux time		
Value	12	- 80	sec
Method	DIN cup 4 mm		
Reference temperature	20	°C	

Solvent separation test

Value	<	3	%
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Other information

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

10.) Stability and reactivity

Materials to avoid

Acids; Alkalies; Oxidizing agents

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Hazardous decomposition products

No hazardous decomposition products known.

11.) Toxicological information

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.

14.) Transport information

Land transport ADR/RID

Class	3	Classification code	F1
Packaging group	II		
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	--
Label	3

Air transport ICAO/IATA

Class	3
Packaging group	II
UN number	1263
Proper shipping name	Paint related material
Label	3

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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

7 Keep container tightly closed.

51 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.

38 Irritating to skin.

41 Risk of serious damage to eyes.

Department issuing safety data sheet

UMCO Umwelt Consult GmbH

Georg-Wilhelm-Str. 183 b, D-21107 Hamburg

Tel.: +49 40 / 41 92 13 00 Fax: +49 40 / 41 92 13 57 e-mail: umco@umco.de

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.