

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.)**

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

**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 (CO<sub>2</sub>)

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<sup>3</sup> 1000 ml/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 375 mg/m<sup>3</sup> 100 ml/m<sup>3</sup>  
 STEL 568 mg/m<sup>3</sup> 150 ml/m<sup>3</sup>  
 Skin resorption / sensibilisation Skin

**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/m<sup>3</sup>  
 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; Alcalis; 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**

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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.

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