

Trade name: edding RMTK25 refill ink permanent marker (black)

Version: 1.0.0 / GB

Status: 23.05.2008

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

### Identification of the substance or preparation

#### Trade name

**edding RMTK25 refill ink permanent marker (black)  
contained in: edding retract 11 permanent marker**

#### 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.
Xi; R41	Risk of serious damage to eyes.
R67	Vapours may cause drowsiness and dizziness.
R33	Danger of cumulative effects.

### Hazard symbols

F	Highly flammable
Xi	Irritant

### R phrases

11	Highly flammable.
33	Danger of cumulative effects.
41	Risk of serious damage to eyes.
67	Vapours may cause drowsiness and dizziness.

## 3.) Composition / information on ingredients

### Chemical characterization

Mixture (preparation)

### Hazardous ingredients

#### 1-METHOXY-2-PROPANOL

EC no.	203-539-1	Index no.	603-064-00-3	CAS no.	107-98-2
Concentration	> 50	< 70	%-b.w.		
Classification	R10				
Hazard symbols	-	R phrases	10		

Trade name: edding RMTK25 refill ink permanent marker (black)

Version: 1.0.0 / GB

Status: 23.05.2008

## PROPAN-1-OL

EC no.	200-746-9	Index no.	603-003-00-0	CAS no.	71-23-8
Concentration	> 10	< 30	%-b.w.		
Classification	F; R11	Xi; R41	R67		
Hazard symbols	F, Xi	R phrases	11-41-67		

## hydrogen bis[2,4-dihydro-4-[(2-hydroxy-4-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)]chromate(1-)

EC no.	251-436-5	Index no.	-	CAS no.	33270-70-1
Concentration	> 1	< 5	%-b.w.		
Classification	Xn; R20/21/22	R33			
Hazard symbols	Xn	R phrases	20/21/22-33		

### 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.). Eye treatment by an oculist.

### After ingestion

Do not induce vomiting. 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)  
Nitrogen oxides (NO<sub>x</sub>)  
Sulphur oxides

### 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.

Trade name: edding RMTK25 refill ink permanent marker (black)

Version: 1.0.0 / GB

Status: 23.05.2008

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

#### 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:

- Oxidizing agents
- Acid anhydrides
- Acid chlorides
- Metals

#### 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

#### 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			

Trade name: edding RMTK25 refill ink permanent marker (black)

Version: 1.0.0 / GB

Status: 23.05.2008

## PROPAN-1-OL

CAS no. 71-23-8  
EC no. 200-746-9

### Occupational Exposure Standards (OESs) / EH40

Propan-1-ol				
TWA	500	mg/m <sup>3</sup>	200	ml/m <sup>3</sup>
STEL	625	mg/m <sup>3</sup>	250	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.

#### 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

#### 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	Various, depending on coloration
Odour	solvent-like

### Important health, safety and environmental information

#### Changes in physical state

Type	Boiling point	
Value	96	- 122 °C

#### Flash point

Value	15 °C
-------	-------

#### Ignition temperature

Value	270 °C
-------	--------

#### Explosion limits

Lower explosion limit	1,90	%
Upper explosion limit	13,5	% vol

#### Vapour pressure

Value	13,3	mbar
Reference temperature	20	°C

Trade name: edding RMTK25 refill ink permanent marker (black)

Version: 1.0.0 / GB

Status: 23.05.2008

## Density

Value 0,92 g/cm<sup>3</sup>

## Viscosity

Value 5 - 9 cP

## Solubility in water

Remarks miscible

## pH value

Value 4 - 9

## 10.) Stability and reactivity

### Materials to avoid

Oxidizing agents; Acid anhydrides; Acid chlorides; Metals

### Hazardous decomposition products

None, if handled according to order

## 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.

Eye contact with the product may lead to irritation.

### Other information (chapter 11.)

Product specific toxicological data are not known.

## 12.) Ecological information

### Ecotoxicity

#### Fish toxicity

LC50 4100 - 5000 ppm

Species Fathead minnow

Duration of exposure 96 h

Reference substance 1-Propanol

LC50 1 - 16 mg/l

Species Leuciscus idus

Reference substance Dyes

#### Bacteria toxicity

EC50 1 - 10 mg/l

Reference substance Dyes

### Persistence and degradability

#### Biodegradability

Evaluation readily biodegradable

Reference substance solvent

### Other adverse effects

There are no data available on the preparation itself.

Do not discharge product unmonitored into the environment.

Trade name: edding RMTK25 refill ink permanent marker (black)

Version: 1.0.0 / GB

Status: 23.05.2008

## 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		
Special Provision 640	D		

### Marine transport IMDG

Class	3
Packaging group	II
UN number	1263
Proper shipping name	Paint
EmS	F-E, S-E
MARPOL	--
Label	3

### Air transport ICAO/IATA

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

## 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
Xi	Irritant

### R phrases

11	Highly flammable.
33	Danger of cumulative effects.
41	Risk of serious damage to eyes.
67	Vapours may cause drowsiness and dizziness.

### S phrases

2	Keep out of the reach of children.
26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
37/39	Wear suitable gloves and eye/face protection.

Trade name: edding RMTK25 refill ink permanent marker (black)

Version: 1.0.0 / GB

Status: 23.05.2008

**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.

20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

33 Danger of cumulative effects.

41 Risk of serious damage to eyes.

67 Vapours may cause drowsiness and dizziness.

**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](mailto: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.