

Trade name: edding Boardmarker Refill Ink (black) BT30, BT100, BTK25, BTK 100,
Version: 3.0.0 / GB

Status: 25.07.2011

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

Trade name

edding Boardmarker Refill Ink (black) BT30, BT100, BTK25, BTK 100, RBTK25

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the substance or mixture

Refilling ink

Details of the supplier of the safety data sheet

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

For medical advice (in German and English):
+49 (0)30 30686 790 (Giftnotruf Berlin)

Advice on Safety Data Sheet

sdb_info@umco.de

2.) Hazards identification

Classification of the substance or mixture

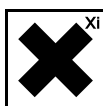
Classification in accordance with Directive 67/548/EEC or 1999/45/EC

R10
R67
Xi; R41

Label elements

Labelling according to Directive 1999/45/CE

Hazard symbols



Irritant

R phrases

10 Flammable.
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.
39 Wear eye/face protection.
46 If swallowed, seek medical advice immediately and show this container or label.

3.) Composition / information on ingredients

Chemical characterization

Alcoholic solution of organic pigments, binding agents and additives.

Hazardous ingredients

n-propanol, propan-1-ol

EC no.	200-746-9	Index no.	603-003-00-0	CAS no.	71-23-8
Concentration	> 50	<	100	%-b.w.	

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Classification	F; R11	Xi; R41	R67		
Hazard symbols	F; Xi		R phrases	11-41-67	
1-METHOXY-2-PROPANOL					
EC no.	203-539-1	Index no.	603-064-00-3	CAS no.	107-98-2
Concentration	> 10	< 25	%-b.w.		
Classification	R10	R67			
Hazard symbols	-		R phrases	10-67	

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.). Seek medical assistance.

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

Extinguishing media that must not be used for safety reasons

Water

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.

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 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.

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Advice on storage assembly

None known

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

n-propanol, propan-1-ol

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

List of approved workplace exposure limits (WELs) / EH40

Propan-1-ol				
TWA	500	mg/m ³	200	ml/m ³
STEL	625	mg/m ³	250	ml/m ³
Skin resorption / sensibilisation	Sk			

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			

List of approved workplace exposure limits (WELs) / 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			

Exposure controls

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.

Eye protection

Safety glasses with side protection shield (EN 166)

Skin protection

Normal chemical work clothing.

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

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Important health, safety and environmental information

Changes in physical state

Type	Boiling point		
Value		96	°C

Flash point

Value		23	°C
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Ignition temperature

Value		287	°C
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Explosion limits

Upper explosion limit	13,5	% vol
Lower explosion limit	1,7	% vol

Vapour pressure

Value		19	hPa
Reference temperature	20	° C	

Density

Value	0,86		g/cm ³
Reference temperature	20	° C	

Viscosity

Type	dynamic		
Value	12		mPa*s
Reference temperature	20	° C	

Solubility in water

Remarks	partially miscible
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pH value

Remarks	not determined
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Solvent content

Value	79,5	%
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Solids content

Value	9,5	%
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10.) Stability and reactivity

Conditions to avoid

None known

Materials to avoid

None known.

Hazardous decomposition products

No hazardous decomposition products known.

11.) Toxicological information

Acute toxicity

Acute oral toxicity

LD50	8000	mg/kg
Species	rat	
Reference substance	1-propanol	

Acute dermal toxicity

LD50	4000	mg/kg
Species	rabbit	
Reference substance	1-propanol	

Irritant/corrosive effects

Irritant effect on skin

Evaluation	non-irritant
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Irritant effect on eyes

Evaluation	irritant - risk of strong eye injuries
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Sensitisation

Remarks No sensitizing effects are known.

Effects after repeated or prolonged exposition (subacute, subchronic, chronic)

Mutagenicity

No experimental information on genotoxicity available.

Reproduction toxicity

No experimental information on reproduction toxic effects available.

Carcinogenicity

No experimental information on carcinogenic effects available.

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

Product specific toxicological data are not known.

12.) Ecological information

Other information

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

Transport ADR/RID/ADN

Class	3
Classification code	F1
Packing group	III
Hazard identification no.	30
UN number	1263
Technical name	PAINT
Special Provision 640	640E
Tunnel restriction code	D/E
Label	3

Transport IMDG

Class	3
Packing group	III
UN number	1263
Proper shipping name	PAINT
EmS	F-E+S-E
Label	3

Transport ICAO/IATA

Class	3
Packing group	III
UN number	1263
Proper shipping name	Paint
Label	3

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15.) Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

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

Remarks Annex I, part 2, category 6

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), 1272/2008 (CLP) as amended in each case.

EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EC

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.

Full text of R-phrases referred to under section 3

R10	Flammable.
R11	Highly flammable.
R41	Risk of serious damage to eyes.
R67	Vapours may cause drowsiness and dizziness.

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.

Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.