

Trade name: Boardmarker Refill Ink (black) BT30, BTK25

Version: 1.0.0 / GB

Status: 03.07.2009

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

Identification of the substance or preparation

Trade name

**Boardmarker Refill Ink (black) BT30, BTK25
contained in: Boardmarker TZ 140**

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.

Hazard symbols

F Highly flammable
Xi Irritant

R phrases

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

3.) Composition / information on ingredients

Chemical characterization

Alcoholic solution of organic pigments, binding agents and additives.

Hazardous ingredients

ETHANOL

EC no.	200-578-6	Index no.	603-002-00-5	CAS no.	64-17-5
Concentration	> 10	<	25 %-b.w.		
Classification	F; R11				
Hazard symbols	F	R phrases	11		

PROPAN-1-OL

EC no.	200-746-9	Index no.	603-003-00-0	CAS no.	71-23-8
Concentration	> 50	<	100 %-b.w.		
Classification	F; R11 Xi; R41	R67			
Hazard symbols	F, Xi	R phrases	11-41-67		

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PROPAN-2-OL

EC no.	200-661-7	Index no.	603-117-00-0	CAS no.	67-63-0
Concentration	> 2,5	< 10	%-b.w.		
Classification	F; R11	Xi; R36	R67		
Hazard symbols	F, Xi		R phrases	11-36-67	

Other information (chapter 3.)

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 (CO₂)
- Carbon monoxide (CO)
- Nitrogen oxides (NO_x)

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.

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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.

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.

Recommended storage temperature

Value 5 - 30 °C

8.) Exposure controls / personal protection

Exposure limit values

ETHANOL

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

List of approved workplace exposure limits (WELs) / EH40

Ethanol
 TWA 1920 mg/m³ 1000 ml/m³

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/m³ 200 ml/m³
 STEL 625 mg/m³ 250 ml/m³
 Skin resorption /
 sensibilisation Sk

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PROPAN-2-OL

CAS no. 67-63-0
 EC no. 200-661-7

List of approved workplace exposure limits (WELs) / EH40

Propan-2-ol				
TWA	999	mg/m ³	400	ml/m ³
STEL	1250	mg/m ³	500	ml/m ³

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

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 78 °C

Flash point

Value 13 °C

Ignition temperature

Value 360 °C

Explosion limits

Upper explosion limit 15,0 % vol
 Lower explosion limit 2,1 % vol

Vapour pressure

Value 59 hPa

Density

Value no data available

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Solubility in water

Remarks miscible

Solvent content

Value 80 %

10.) Stability and reactivity

Materials to avoid

Acids; Alcalis; Oxidizing agents

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.

Eye contact with the product may lead to irritation.

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		
Special Provision 640	D		

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Marine transport IMDG

Class	3
Packaging group	II
UN number	1263
Proper shipping name	Paint
EmS	F-E, S-E
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 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.
41	Risk of serious damage to eyes.
67	Vapours may cause drowsiness and dizziness.

S phrases

26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
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
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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):

11	Highly flammable.
36	Irritating to eyes.
41	Risk of serious damage to eyes.
67	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.