Trade name: edding Boardmarker Refill Ink (blue) BT30, BTK25 Version: 2.0.1 / GB



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	Identification of the substance/preparation and of the company/undertaking						
			ation				
	Trade name	substance or prepara	ation				
	edding Boar	dmarker Refill : edding 28, ed	•	e) BT30, BTI	< 25		
	Use of the substar Refilling ink	ce/preparation					
	Company/undertaki	ng identification					
	Address edding Aktiengese Bookkoppel 7 D-22926 Ahrens						
	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 identific	cation					
	Classification F; R11	Highly flammable					
	Hazard symbols F	Highly flammable					
	R phrases 11	Highly flammable.					
3.)	Composition / information on ingredients						
-	Chemical characterization Alcoholic solution of organic pigments, binding agents and additives.						
	Hazardous ingredie	nts					
	ETHANOL EC no. Concentration Classification	200-578-6 Ind	lex no. < 80	603-002-00-5 %-b.w.	CAS no.	64-17-5	
	Hazard symbols PROPAN-2-OL		R phrases	11			
	EC no. Concentration	< 15	lex no.	603-117-00-0 %-b.w.	CAS no.	67-63-0	
	Classification Hazard symbols	F; R11 Xi; R36 F, Xi	R67 R phrases	11-36-	67		
	Other information (chanter 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.). 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.) <u>Fire-fighting measures</u>

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 (NOx)

Special protective equipment for fire-fighters

Use self-contained breathing apparatus. Wear protective clothing.

Other information

Cool endangered containers with water spray jet. Suppres 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 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.

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versio	iii. 2.0.1 / GB				Status: 51.07.20	109
	Advice on protection again Vapours can form an explor Keep away from sources of tools.	osive mixture	with air. Take pre	ecautionary meas sion-proof equipm	ures against static charges. ient/fittings and non-sparking	J
	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 assem Do not store together with Oxidizing agents					
	Further information on sto Keep container tightly clos sunlight.			ilated place. Prote	ect from heat and direct	
	Recommended storage te Value	mperature	10 - 25	C		
8.)	Exposure controls / pe	ersonal pro	otection			
- /	Exposure limit values ETHANOL	•				
	CAS no. EC no.	64-17-5 200-578				
	List of approved workpla Ethanol TWA PROPAN-2-OL	ace exposure 1920	e limits (WELs) / mg/m³	EH40 1000	ml/m³	
	CAS no. EC no.	67-63-0 200-661				
	List of approved workpla	ace exposure	e limits (WELs) /	EH40		
	Propan-2-ol TWA STEL	999 1250	mg/m³ mg/m³	400 500	ml/m³ ml/m³	
	Personal protective equipm	nent				
		ol and mist for	rmation, take app		red for this particular job mus s for breathing protection in	t
	event of risk of skin contac case for its specific work-s antistatic properties). Adhe storage, care and replacer	et with the pro station suitabitere to the main ment of prote	oduct . Before use lity (i.e. mechanic nufacturer's instru ctive gloves. Prot	e, the protective g cal resistance, pro uctions and inform ective gloves sha	nation relating to the use,	

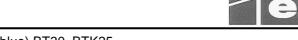
when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Eye protection

Safety glasses with side protection shield (EN 166)

Skin protection

Clothing as usual in the chemical industry.



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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	blue			
Odour	characteristic			

Important health, safety and environmental information

Changes in physical state Type Value	Boiling point		78,3	C
Flash point Value Method	closed cup		12	C
Ignition temperature Value			365	C
Explosion limits				
Upper explosion limit	19,0			% vol
Lower explosion limit	3,5			% vol
Vapour pressure Value Reference temperature	20		5,81 ℃	kPa
Density Value	0,82	-	0,86	g/cm³
Viscosity Value	5	-	14	mPa*s
Solubility in water Remarks	partially miscible			
Solids content Value	15	-	30	%

10.) Stability and reactivity

Materials to avoid

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.

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-1.

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.) <u>Transport information</u>

.....

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.) <u>Regulatory information</u>

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
R phrases 11	Highly flammable.

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S phrases

7 Keep container tightly closed. 16 Keep away from sources of ignition --- No smoking.

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

Remarks

Annex I, part 2, category 7 b

Other information 16.)

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 eves.

- Irritating 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

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.



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