

**Trade name:** edding refill ink whiteboard marker BT30, BTK25 (blue) contained in: edding 250

**Current version :** 4.0.0, issued: 16.06.2017

**Replaced version:** 3.1.0, issued: 16.12.2015

**Region:** GB

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

**Trade name**

**edding refill ink whiteboard marker BT30, BTK25 (blue) contained in: edding 250**

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

**Relevant identified uses of the substance or mixture**

Refill ink

**Uses advised against**

No data available.

### 1.3 Details of the supplier of the safety data sheet

**Address**

edding International GmbH

Bookkoppel 7

D-22926 Ahrensburg

Telephone no. +49 (0) 41 02 / 80 8-0

**Information provided by / telephone**

+49 (0)4102 - 808-0

**Advice on Safety Data Sheet**

sdb\_info@umco.de

### 1.4 Emergency telephone number

For medical advice (in German and English):

+49 (0)30 30686 790 (Giftnotruf Berlin)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Aquatic Chronic 2; H411

Eye Irrit. 2; H319

Flam. Liq. 2; H225

**Classification information**

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

### 2.2 Label elements

**Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)**

**Hazard pictograms**



GHS02



GHS07



GHS09

**Signal word**

Danger

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### Hazard statement(s)

H225 Highly flammable liquid and vapour.  
 H319 Causes serious eye irritation.  
 H411 Toxic to aquatic life with long lasting effects.

### Precautionary statement(s)

P101 If medical advice is needed, have product container or label at hand.  
 P102 Keep out of reach of children.  
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P370+P378 In case of fire: Use water spray, extinguishing powder, foam or CO2 to extinguish.  
 P501 Dispose of contents/container to a facility in accordance with local and national regulations.

### Labelling information

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

## 2.3 Other hazards

No data available.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable. The product is not a substance.

### 3.2 Mixtures

#### Chemical characterization

Alcoholic solution of organic pigments, binding agents and additives.

#### Hazardous ingredients

No	Substance name		Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration	%
1	<b>ethanol</b>			
	64-17-5 200-578-6 603-002-00-5 01-2119457610-43	Flam. Liq. 2; H225	61.00 - 63.00	%-b.w.
2	<b>propan-2-ol</b>			
	67-63-0 200-661-7 603-117-00-0 01-2119457558-25	Eye Irrit. 2; H319 Flam. Liq. 2; H225 STOT SE 3; H336	15.00	%-b.w.
3	<b>Bis(2-ethylhexyl) maleate</b>			
	142-16-5 205-524-5 - 01-2119524002-60	STOT RE 2; H373 Aquatic Chronic 1; H410	7.00 - 9.00	%-b.w.

Full Text for all H-phrases and EUH-phrases: pls. see section 16

### 3.3 Other information

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

## SECTION 4: First aid measures

### 4.1 Description of 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.

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#### **After inhalation**

Remove affected person from the immediate area. Ensure supply of fresh air. In case of persisting adverse effects consult a physician.

#### **After skin contact**

Wash immediately with plenty of water for several minutes. Consult a doctor if skin irritation persists.

#### **After eye contact**

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Seek medical assistance.

#### **After ingestion**

Do not induce vomiting. Call a doctor immediately. Never give anything by mouth to an unconscious person.

### **4.2 Most important symptoms and effects, both acute and delayed**

No data available.

### **4.3 Indication of any immediate medical attention and special treatment needed**

No data available.

## **SECTION 5: Firefighting measures**

### **5.1 Extinguishing media**

#### **Suitable extinguishing media**

Alcohol-resistant foam; Extinguishing powder; Carbon dioxide; Water spray jet

#### **Unsuitable extinguishing media**

High power water jet

### **5.2 Special hazards arising from the substance or mixture**

In the event of fire, the following can be released: Carbon dioxide (CO<sub>2</sub>); Carbon monoxide (CO)

### **5.3 Advice for firefighters**

Use self-contained breathing apparatus. Cool endangered containers with water spray jet. Run-off water from fire fighting must not be discharged into drains or enter surface water. Wear protective clothing.

## **SECTION 6: Accidental release measures**

### **6.1 Personal precautions, protective equipment and emergency procedures**

#### **For non-emergency personnel**

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.

#### **For emergency responders**

No data available. Personal protective equipment (PPE) - see Section 8.

### **6.2 Environmental precautions**

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

### **6.3 Methods and material for containment and cleaning up**

Take up with absorbent material (e.g., sand, kieselguhr, universal binder). Send in suitable containers for recovery or disposal.

### **6.4 Reference to other sections**

No data available.

## **SECTION 7: Handling and storage**

### **7.1 Precautions for safe handling**

#### **Advice on safe handling**

Provide good ventilation at the work area (local exhaust ventilation, if necessary). 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 as it is possible by the state of the art.

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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.

**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.

**7.2 Conditions for safe storage, including any incompatibilities**

**Technical measures and storage conditions**

Keep container tightly closed and dry in a cool, well-ventilated place. Protect from heat and direct sunlight.

**Requirements for storage rooms and vessels**

Containers which are opened must be carefully closed 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; Alkali metals; Earth alkali metals; Nitric acid; sulfuric acid; Peroxides

**7.3 Specific end use(s)**

No data available.

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

**Occupational exposure limit values**

No	Substance name	CAS no.	EC no.
1	ethanol	64-17-5	200-578-6
<b>List of approved workplace exposure limits (WELs) / EH40</b>			
Ethanol			
	TWA	1920 mg/m <sup>3</sup>	1000 ml/m <sup>3</sup>
2	propan-2-ol	67-63-0	200-661-7
<b>List of approved workplace exposure limits (WELs) / EH40</b>			
Propan-2-ol			
	STEL	1250 mg/m <sup>3</sup>	500 ml/m <sup>3</sup>
	TWA	999 mg/m <sup>3</sup>	400 ml/m <sup>3</sup>

**DNEL, DMEL and PNEC values**

**DNEL values (worker)**

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	ethanol			<b>64-17-5</b> <b>200-578-6</b>	
	dermal	Long term (chronic)	systemic	343	mg/kg/day
	inhalative	Long term (chronic)	systemic	950	mg/m <sup>3</sup>
	inhalative	Short term (acute)	local	1900	mg/m <sup>3</sup>
2	propan-2-ol			<b>67-63-0</b> <b>200-661-7</b>	
	dermal	Long term (chronic)	systemic	888	mg/kg/day
	inhalative	Long term (chronic)	systemic	500	mg/m <sup>3</sup>
3	Bis(2-ethylhexyl) maleate			<b>142-16-5</b> <b>205-524-5</b>	
	dermal	Long term (chronic)	local	3.91	mg/kg/day
	dermal	Long term (chronic)	systemic	0.42	mg/kg/day
	inhalative	Long term (chronic)	local	1.95	mg/m <sup>3</sup>
	inhalative	Long term (chronic)	systemic	1.95	mg/m <sup>3</sup>

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**DNEL value (consumer)**

No	Substance name			CAS / EC no
	Route of exposure	Exposure time	Effect	Value
1	<b>ethanol</b>			<b>64-17-5</b> <b>200-578-6</b>
	oral	Long term (chronic)	systemic	87 mg/kg/day
	dermal	Long term (chronic)	systemic	206 mg/kg/day
	inhalative	Short term (acut)	local	950 mg/m <sup>3</sup>
	inhalative	Long term (chronic)	systemic	114 mg/m <sup>3</sup>
2	<b>propan-2-ol</b>			<b>67-63-0</b> <b>200-661-7</b>
	oral	Long term (chronic)	systemic	26 mg/kg/day
	dermal	Long term (chronic)	systemic	319 mg/kg/day
	inhalative	Long term (chronic)	systemic	89 mg/m <sup>3</sup>

**PNEC values**

No	Substance name		CAS / EC no
	ecological compartment	Type	Value
1	<b>ethanol</b>		<b>64-17-5</b> <b>200-578-6</b>
	water	fresh water	0.96 mg/l
	water	marine water	0.79 mg/l
	water	fresh water sediment	3.6 mg/kg
	with reference to: dry weight		
	water	Aqua intermittent	2.75 mg/l
	soil	-	0.63 mg/kg
	with reference to: dry weight		
	sewage treatment plant	-	580 mg/l
	secondary poisoning	-	0.72 g/kg
	with reference to: food		
2	<b>propan-2-ol</b>		<b>67-63-0</b> <b>200-661-7</b>
	water	fresh water	140.9 mg/l
	water	marine water	140.9 mg/l
	water	fresh water sediment	552 mg/l
	water	marine water sediment	552 mg/l
	water	Aqua intermittent	140.9 mg/l
	soil	-	28 mg/kg
	sewage treatment plant	-	2251 mg/l
	secondary poisoning	-	160 mg/kg
with reference to: food			
3	<b>Bis(2-ethylhexyl) maleate</b>		<b>142-16-5</b> <b>205-524-5</b>
	water	fresh water	0.001 mg/l
	water	marine water	0.0001 mg/l
	water	fresh water sediment	15.95 mg/kg
	water	marine water sediment	1.595 mg/kg
	soil	-	3.19 mg/kg
sewage treatment plant	-	100 mg/l	

**8.2 Exposure controls**

**Appropriate engineering controls**

No data available.

**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. Short term: filter apparatus, Filter A

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### Eye / face protection

Safety glasses with side protection shield (EN 166)

### 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 gloves 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		
Material thickness	0.5	mm	
Breakthrough time	>= 8	h	
Appropriate Material	Fluorocarbon rubber (Viton)		
Material thickness	0.4	mm	
Breakthrough time	>= 8	h	
Appropriate Material	Polychloroprene		
Material thickness	0.5	mm	
Breakthrough time	>= 2	h	

### Other

Normal chemical work clothing.

### Environmental exposure controls

No data available.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Form/Colour</b>	
liquid	
blue	
<b>Odour</b>	
alkohol-like	
<b>Odour threshold</b>	
No data available	
<b>pH value</b>	
Value	3 - 9
<b>Boiling point / boiling range</b>	
Value	78.3 °C
<b>Melting point / melting range</b>	
Value	-114.5 °C
<b>Decomposition point / decomposition range</b>	
No data available	
<b>Flash point</b>	
Value	12 °C
<b>Auto-ignition temperature</b>	
Value	425 °C

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<b>Oxidising properties</b>			
No data available			
<b>Explosive properties</b>			
No data available			
<b>Flammability (solid, gas)</b>			
No data available			
<b>Lower flammability or explosive limits</b>			
Value	3.5	% vol	
<b>Upper flammability or explosive limits</b>			
Value	15.0	% vol	
<b>Vapour pressure</b>			
Value	59	hPa	
Reference temperature	20	°C	
<b>Vapour density</b>			
No data available			
<b>Evaporation rate</b>			
No data available			
<b>Relative density</b>			
No data available			
<b>Density</b>			
No data available			
<b>Solubility in water</b>			
Remarks	miscible		
<b>Solubility(ies)</b>			
No data available			
<b>Partition coefficient: n-octanol/water</b>			
<b>No</b>	<b>Substance name</b>	<b>CAS no.</b>	<b>EC no.</b>
1	propan-2-ol	67-63-0	200-661-7
log Pow		0.05	
Reference temperature		25	°C
Source		ECHA	
<b>Viscosity</b>			
Value	7.5	- 12	cP
Reference temperature		20	°C
Type	dynamic		

## 9.2 Other information

<b>Other information</b>
No data available.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No data available.

### 10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

### 10.3 Possibility of hazardous reactions

No data available.

### 10.4 Conditions to avoid

Heat, naked flames and other ignition sources.

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### 10.5 Incompatible materials

Oxidizing agents; Alkali metals; Earth alkali metals; Nitric acid; sulfuric acid; Peroxides

### 10.6 Hazardous decomposition products

No hazardous decomposition products known.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Acute oral toxicity			
No	Substance name	CAS no.	EC no.
1	ethanol	64-17-5	200-578-6
LD50		10740	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		
2	propan-2-ol	67-63-0	200-661-7
LD50		5840	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		
3	Bis(2-ethylhexyl) maleate	142-16-5	205-524-5
LD50	>	2000	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		

Acute dermal toxicity			
No	Substance name	CAS no.	EC no.
1	Bis(2-ethylhexyl) maleate	142-16-5	205-524-5
LD50		14000	mg/kg bodyweight
Species	rabbit		
Source	ECHA		

Acute inhalational toxicity			
No	Substance name	CAS no.	EC no.
1	ethanol	64-17-5	200-578-6
LC50		124.7	mg/l
Duration of exposure		4	h
State of aggregation	Dust/mist		
Species	rat		
Method	OECD 403		
Source	ECHA		
2	propan-2-ol	67-63-0	200-661-7
LC50	>	10000	ppmV
Duration of exposure		6	h
State of aggregation	Gas		
Species	rat		
Method	OECD 403		
Source	ECHA		

Skin corrosion/irritation			
No	Substance name	CAS no.	EC no.
1	propan-2-ol	67-63-0	200-661-7
Species	rabbit		
Source	ECHA		
Evaluation	non-irritant		



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<b>Serious eye damage/irritation</b>			
No	Substance name	CAS no.	EC no.
1	propan-2-ol	67-63-0	200-661-7
Species		rabbit	
Method		OECD 405	
Source		ECHA	
Evaluation		irritant	

<b>Respiratory or skin sensitisation</b>			
No	Substance name	CAS no.	EC no.
1	ethanol	64-17-5	200-578-6
Route of exposure		Skin	
Species		mouse	
Method		OECD 429	
Source		ECHA	
Evaluation		non-sensitizing	
2	propan-2-ol	67-63-0	200-661-7
Route of exposure		Skin	
Species		guinea pig	
Method		OECD 406	
Source		ECHA	
Evaluation		non-sensitizing	

<b>Germ cell mutagenicity</b>			
No	Substance name	CAS no.	EC no.
1	ethanol	64-17-5	200-578-6
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
2	propan-2-ol	67-63-0	200-661-7
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

<b>Reproduction toxicity</b>			
No	Substance name	CAS no.	EC no.
1	ethanol	64-17-5	200-578-6
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

<b>Carcinogenicity</b>			
No	Substance name	CAS no.	EC no.
1	ethanol	64-17-5	200-578-6
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

<b>STOT-single exposure</b>			
No data available			

<b>STOT-repeated exposure</b>			
No data available			

<b>Aspiration hazard</b>			
No data available			

<b>Delayed and immediate effects as well as chronic effects from short and long-term exposure</b>			
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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## SECTION 12: Ecological information

### 12.1 Toxicity

Toxicity to fish (acute)			
No	Substance name	CAS no.	EC no.
1	ethanol	64-17-5	200-578-6
LC50		>	14000 mg/l
Duration of exposure			96 h
Species	Pimephales promelas		
Method	EPA E03-05		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	propan-2-ol	67-63-0	200-661-7
LC50			9640 mg/l
Duration of exposure			96 h
Species	Pimephales promelas		
Method	OECD 203		
Source	ECHA		

Toxicity to fish (chronic)			
No data available			

Toxicity to Daphnia (acute)			
No data available			

Toxicity to Daphnia (chronic)			
No data available			

Toxicity to algae (acute)			
No data available			

Toxicity to algae (chronic)			
No data available			

Bacteria toxicity			
No data available			

### 12.2 Persistence and degradability

Biodegradability			
No	Substance name	CAS no.	EC no.
1	propan-2-ol	67-63-0	200-661-7
Type	BOD/COD		
Value		53	%
Duration		5	day(s)
Source	ECHA		
Evaluation	readily biodegradable		

### 12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water			
No	Substance name	CAS no.	EC no.
1	propan-2-ol	67-63-0	200-661-7
log Pow		0.05	
Reference temperature		25	°C
Source	ECHA		

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## 12.4 Mobility in soil

No data available.

## 12.5 Results of PBT and vPvB assessment

No data available.

## 12.6 Other adverse effects

No data available.

## 12.7 Other information

### Other information

Do not discharge product unmonitored into the environment.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### 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.

## SECTION 14: Transport information

### 14.1 Transport ADR/RID/ADN

Class	3
Classification code	F1
Packing group	II
Hazard identification no.	33
UN number	UN1263
Technical name	PAINT
Danger releasing substance	ethanol bis (2-ethylhexyl) maleate
Special Provision 640	640D
Tunnel restriction code	D/E
Label	3
Environmentally hazardous substance mark	Symbol "fish and tree"

### 14.2 Transport IMDG

Class	3
Packing group	II
UN number	UN1263
Proper shipping name	PAINT
Danger releasing substance	ethanol bis (2-ethylhexyl) maleate
EmS	F-E+S-E
Label	3
Marine pollutant mark	Symbol "fish and tree"

### 14.3 Transport ICAO-TI / IATA

Class	3
Packing group	II
UN number	UN1263
Proper shipping name	Paint
Label	3

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#### 14.4 Other information

No data available.

#### 14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

#### 14.6 Special precautions for user

No data available.

#### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not relevant

### SECTION 15: Regulatory information

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

##### EU regulations

###### **Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

###### **REACH candidate list of substances of very high concern (SVHC) for authorisation**

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

###### **Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES**

The product is considered being subject to REACH regulation (EC) 1907/2006 annexe XVII.	No 3, 40
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###### **Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances**

This product is subject to Part I of Annex I, risk category:	E2, P5b
If the properties of the substance/product give rise to more than one classification, for the purposes of 2012/18/UE, the lowest qualifying quantities set out in Part 1 and Part 2 of Annex I shall apply.	

#### 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

### SECTION 16: Other information

#### **Sources of key data used to compile the data sheet:**

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

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

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 the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)**

H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure
H410	Very toxic to aquatic life with long lasting effects.

#### **Department issuing safety data sheet**

UMCO GmbH

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**Trade name:** edding refill ink whiteboard marker BT30, BTK25 (blue) contained in: edding 250

**Current version :** 4.0.0, issued: 16.06.2017

**Replaced version:** 3.1.0, issued: 16.12.2015

**Region:** GB

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

Alterations/supplements:

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

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