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

Product identifier

Trade name

edding refill ink whiteboard marker (blue) BTK25 contained in : edding 360, edding 363

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

Relevant identified uses of the substance or mixture

Refilling 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

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

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

Eve Irrit. 2; H319

Flam. Liq. 2; H225

STOT SE 3; H336

Classification information

Classification and labelling with respect to specific target organ toxicity (single exposure) are based on toxicological studies performed on the product (mixture).

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



GHS09

Signal word

Danger



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Hazard statements

H225
 H319
 H336
 H336
 H411
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Precautionary statements

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.

P271 Use only outdoors or in a well-ventilated area.

P370+P378 In case of fire: Use water spray, extinguishing powder, foam or CO2 for extinction.

P405 Store locked up.

P501 Dispose of contents/container 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 /	Classification (EC) 1272/2008 (CLP)	Concentration	%
	REACH no			
1	ethanol			
	64-17-5	Flam. Liq. 2; H225	< 60.00	%-b.w.
	200-578-6			
	603-002-00-5			
	01-2119457610-43			
2	propan-2-ol			
	67-63-0	Eye Irrit. 2; H319	< 15.00	%-b.w.
	200-661-7	Flam. Liq. 2; H225		
	603-117-00-0	STOT SE 3; H336		
	01-2119457558-25			
3	Bis(2-ethylhexyl) m	aleate		
	142-16-5	STOT RE 2; H373	< 10.00	%-b.w.
	205-524-5	Aquatic Chronic 1; H410		
	-			
	01-2119524002-60			

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.

After skin contact

Wash immediately with plenty of water for several minutes.

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 (CO2); 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 of working 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 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; Alcali metals; Earth alkali metals; Acids; 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	
	List of approved workplace exposure limits (WELs) / E	EH40			
	Ethanol				
	TWA	1920	mg/m³	1000	ml/m³
2	propan-2-ol	67-63-0		200-661-7	
	List of approved workplace exposure limits (WELs) / E	EH40			
	Propan-2-ol				
	STEL	1250	mg/m³	500	ml/m³

DNEL and PNEC values

DNEL values (worker)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	ethanol			64-17-5	
			<u></u>	200-578-6	
	dermal	Long term (chronic)	systemic	343	mg/kg/day
	inhalative	Long term (chronic)	systemic	950	mg/m³
	inhalative	Short term (acut)	local	1900	mg/m³
2	propan-2-ol			67-63-0	
				200-661-7	
	dermal	Long term (chronic)	systemic	888	mg/kg/day
	inhalative	Long term (chronic)	systemic	500	mg/m³
3	Bis(2-ethylhexyl) maleate			142-16-5	
				205-524-5	
	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/m³
	inhalative	Long term (chronic)	systemic	1.95	mg/m³



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DNEL value (consumer)

No	Substance name	Substance name			
	Route of exposure	Exposure time	Effect	Value	
1	ethanol			64-17-5	
				200-578-6	
	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/m³
	inhalative	Long term (chronic)	systemic	114	mg/m³
2	propan-2-ol			67-63-0	
				200-661-7	
	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/m³

PNEC values

No	Substance name		CAS / EC no	
	ecological compartment	Type	Value	
1	ethanol		64-17-5	
			200-578-6	
	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	propan-2-ol		67-63-0	
			200-661-7	
	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	
	soil	-	28	mg/kg
	sewage treatment plant	-	2251	mg/l
	secondary poisoning	-	160	mg/kg
	with reference to: food			
3	Bis(2-ethylhexyl) maleate		142-16-5	
		1	205-524-5	
	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 > 480 min.
Appropriate Material Polychloroprene
Material thickness 0.5 mm
Breakthrough time > 120 min.

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

Form/Colour			
liquid			
blue			
Odour			
characteristic			
Odour threshold			
No data available			
pH value			
Value	3	- 9	
Boiling point / boiling range			
Value		78.3	°C
			-
Melting point / melting range			
Value		-114.5	°C
Decomposition point / decomposition range			
No data available			
Flash point			
Value		12	°C
A de la Maria de la constanta			-
Auto-ignition temperature		405	20
Value		425	°C
Oxidising properties			
No data available			
Explosive properties			
No data available			
Flammability (solid, gas)			
No data available			
Lower flammability or explosive limits			
Value		3.5	% vol



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Upper flammability or explosive limits			
Value	15.0	% vol	
V			
Vapour pressure			
Value	59	hPa	
Reference temperature	20	°C	
Vapour density			
No data available			
Evaporation rate			

Relative density

No data available

No data available	
Solubility in water	
Remarks	miscible

Solubility(ies) No data available

Part	ition coefficient: n-octanol/water			
No	Substance name	CAS no.		EC no.
1	propan-2-ol	67-63-0		200-661-7
log F	Pow		0.05	
Refe	erence temperature		25	°C
Sou	rce	ECHA		

Viscosity						
Value	7.5	_	2	cР		
Reference temperature		2	20	°C		
Туре	dynamic					

9.2 Other information

No data available

Other information	
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.

10.5 Incompatible materials

Oxidizing agents; Alkali metals; Earth alkali metals; Acids; Peroxides

10.6 Hazardous decomposition products

No hazardous decomposition products known.



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SECTION 11: Toxicological information

11.1 Information on toxicological effects

te oral toxicity				
Substance name		CAS no.		EC no.
ethanol		64-17-5		200-578-6
0			10740	mg/kg bodyweight
cies	rat			
nod	OECD 401			
rce	ECHA			
propan-2-ol		67-63-0		200-661-7
0			5840	mg/kg bodyweight
cies	rat			
nod	OECD 401			
rce	ECHA			
Bis(2-ethylhexyl) maleate		142-16-5		205-524-5
0	>		2000	mg/kg bodyweight
cies	rat			
nod	OECD 401			
rce	ECHA			
	Substance name ethanol Dicies and ce propan-2-ol Dicies and ce Bis(2-ethylhexyl) maleate Dicies and	Substance name ethanol orat cies rat odd OECD 401 cce ECHA propan-2-ol rat oices rat odd OECD 401 cce ECHA Bis(2-ethylhexyl) maleate > cies rat odd OECD 401	Substance name CAS no. ethanol 64-17-5 D rat cies rat odd OECD 401 cc ECHA propan-2-ol 67-63-0 D rat odd OECD 401 cc ECHA Bis(2-ethylhexyl) maleate 142-16-5 D > cies rat odd OECD 401	Substance name CAS no. ethanol 64-17-5 D 10740 cies rat odd OECD 401 cce ECHA propan-2-ol 67-63-0 D 5840 cies rat odd OECD 401 cce ECHA Bis(2-ethylhexyl) maleate 142-16-5 D > cies rat odd OECD 401

Acu	Acute dermal toxicity				
No	Substance name		CAS no.		EC no.
1	Bis(2-ethylhexyl) maleate		142-16-5		205-524-5
LD5	0			14000	mg/kg bodyweight
Spe	cies	rabbit			
Sou	rce	ECHA			

Acu	Acute inhalational toxicity				
No	Substance name		CAS no.		EC no.
1	ethanol		64-17-5		200-578-6
LC5	0			124.7	mg/l
Dura	ation of exposure			4	h
State	e of aggregation	Dust/mist			
Spe	cies	rat			
Meth	nod	OECD 403			
Sou	ce	ECHA			
2	propan-2-ol		67-63-0		200-661-7
LC5	0	>		10000	ppmV
Dura	ation of exposure			6	h
State	e of aggregation	Gas			
Spe	cies	rat			
Meth	Method				
Sou	ce	ECHA			

Skin	Skin corrosion/irritation				
No	Substance name	CAS no.	EC no.		
1	propan-2-ol	67-63-0	200-661-7		
Spec	cies	rabbit			
Sour	ce	ECHA			
Eval	uation	non-irritant			

Seri	Serious eye damage/irritation				
No	Substance name	CAS no.	EC no.		
1	propan-2-ol	67-63-0	200-661-7		
Spec	cies	rabbit			
Meth	nod	OECD 405			
Sour	rce	ECHA			
Eval	uation	irritant			



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Res	Respiratory or skin sensitisation				
No	Substance name	CAS no.	EC no.		
1	ethanol	64-17-5	200-578-6		
Rou	te of exposure	Skin			
Spe	cies	mouse			
Meth	nod	OECD 429			
Sou		ECHA			
Eval	uation	non-sensitizing			
2	propan-2-ol	67-63-0	200-661-7		
Rou	te of exposure	Skin			
Spe	cies	guinea pig			
Meth	nod	OECD 406			
Sou	rce	ECHA			
Eval	uation	non-sensitizing			

Gerr	n cell mutagenicity			
No	Substance name	CAS no.	EC no.	
1	ethanol	64-17-5	200-578-6	
Sour	ce	ECHA		
Eval	uation/classification	Based on available data, the classification criteria are not met.		
2	propan-2-ol	67-63-0	200-661-7	
Sour	ce	ECHA		
Eval	uation/classification	Based on available data, the classification criteria are not met.		

Rep	roduction toxicity			
No	Substance name	CAS no.	EC no.	
1	ethanol	64-17-5	200-578-6	
Soul	rce	ECHA		
Eval	uation/classification	Based on available data, the classification criteria are not met.		

Card	cinogenicity			
No	Substance name	CAS no.	EC no.	
1	ethanol	64-17-5	200-578-6	
Sou	rce	ECHA		
Eval	uation/classification	Based on available data, the classification criteria are not met.		

STO	STOT-single exposure				
No	Product Name				
1	edding refill ink whiteboard marker (blue) BTK25				
	contained in : edding 360, edding 363				
Sou	Source Manufacturer				
Evaluation/classification Based on available data, the classification criteria are met.					

STOT-repeated exposure	
No data available	

Aspiration hazard	
No data available	

Delayed and immediate effects as well as chronic effects from short and long-term exposure

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

Toxi	Toxicity to fish (acute)				
No	Substance name	CAS no.	EC no.		
1	ethanol	64-17-5	200-578-6		
LC50 :		> 14000	mg/l		
Dura	ition of exposure	96	h		
•		Pimephales promelas			
Method		EPA E03-05			
Source		ECHA			
Eval	uation/classification	Based on available data, the classification	tion 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			

Toxi	city	to fi	sh (c	hror	iic)
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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

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

12.3 Bioaccumulative potential

Part	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 Symbol "fish and tree"

substance mark

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

No. 3, 40

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

For this mixture a chemical safety assessment has not been carried out.

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)

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 Umwelt Consult GmbH

Georg-Wilhelm-Str. 183, D-21107 Hamburg

Tel.: +49 40 / 79 02 36 300 Fax: +49 40 / 79 02 36 357 e-mail: umco@umco.de

This information is based on our present state of knowledge and experience.

The security data sheet describes products with a view to the security requirements.

However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.



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Alterations/supplements:

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

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