

Trade name: edding UV-Ink contained in: edding 8280 securitas uv-marker

Current version : 2.1.2, issued: 27.10.2022

Replaced version: 2.1.1, issued: 01.02.2017

Region: GB

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

1.1 Product identifier

Trade name

edding UV-Ink contained in: edding 8280 securitas uv-marker

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

Relevant identified uses of the substance or mixture

Ink for use in felt pens

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)

Acute Tox. 4; H332

Eye Irrit. 2; H319

Flam. Liq. 2; H225

Skin Irrit. 2; H315

STOT RE 2; H373

STOT SE 3; H335

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



GHS08

Signal word

Danger

Hazardous component(s) to be indicated on label:

Trade name: edding UV-Ink contained in: edding 8280 securitas uv-marker

Current version : 2.1.2, issued: 27.10.2022

Replaced version: 2.1.1, issued: 01.02.2017

Region: GB

xylene

Hazard statement(s)

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure

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.
P260	Do not breathe vapours.
P271	Use only outdoors or in a well-ventilated area.
P370+P378	In case of fire: Use water spray, extinguishing powder, foam or CO2 to extinguish.
P405	Store locked up.
P501	Dispose of contents/container to a facility in accordance with local and national regulations.

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**

Mixture (preparation)

Hazardous ingredients

No	Substance name	Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration %
1	xylene		pls. refer to footnote (1)
	1330-20-7 215-535-7 601-022-00-9 -	STOT RE 2; H373 Flam. Liq. 3; H226 Asp. Tox. 1; H304 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 Acute Tox. 4; H332	< 30.00 wt%
2	2-butoxyethyl acetate		
	112-07-2 203-933-3 607-038-00-2 -	Acute Tox. 4*; H312 Acute Tox. 4*; H332	< 20.00 wt%
3	1-methoxy-2-propanol		
	107-98-2 203-539-1 603-064-00-3 -	Flam. Liq. 3; H226 STOT SE 3; H336	< 10.00 wt%
4	cyclohexanone		
	108-94-1 203-631-1 606-010-00-7 -	Acute Tox. 4*; H332 Flam. Liq. 3; H226	< 10.00 wt%
5	ethanol		pls. refer to footnote (1)

Trade name: edding UV-Ink contained in: edding 8280 securitas uv-marker

Current version : 2.1.2, issued: 27.10.2022

Replaced version: 2.1.1, issued: 01.02.2017

Region: GB

	64-17-5 200-578-6 603-002-00-5 -	Flam. Liq. 2; H225 Eye Irrit. 2; H319	< 10.00	wt%
6	ethylbenzene			
	100-41-4 202-849-4 601-023-00-4 -	Acute Tox. 4*; H332 Asp. Tox. 1; H304 Flam. Liq. 2; H225 STOT RE 2; H373	< 10.00	wt%
7	2,5-thiophenediylbis(5-tert-butyl-1,3-benzoxazole)			
	7128-64-5 230-426-4 -	Aquatic Chronic 4; H413	< 5.00	wt%

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

(*, **, ***, ****) Detailed explanation pls. refer to CLP regulation No. 1272/2008, annex VI, 1.2

(1) Aberrant from/in addition to the classification set out in Annex VI, this substance is classified according to European Regulation (EC) No 1272/2008 (CLP), Article 4 (3), paragraph 2.

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
1	C	-	-	-
5	-	Eye Irrit. 2; H319: C >= 50%	-	-

Full text for the notes: pls. see section 16 "Notes relating to the identification, classification and labelling of substances ((EC) No 1272/2008, Annex VI)".

No	Route, target organ, concrete effect
6	H373 -; hearing organs; -

Acute toxicity estimate (ATE) values			
No	oral	dermal	inhalative
2		1580 mg/kg bodyweight	

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.

After inhalation

Ensure supply of fresh air.

After skin contact

Wash off immediately with soap and water.

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

Rinse the mouth thoroughly with water. 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.

Trade name: edding UV-Ink contained in: edding 8280 securitas uv-marker

Current version : 2.1.2, issued: 27.10.2022

Replaced version: 2.1.1, issued: 01.02.2017

Region: GB

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

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

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

Cool endangered containers with water spray jet. Use self-contained breathing apparatus. Wear protective clothing. Suppress gases/vapours/mists with water spray jet.

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 from ignition sources.

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). When collected, handle material as described under the section heading "Disposal considerations".

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). If workplace exposure limits are exceeded, respiratory protection approved for this particular job must be worn. Risks inherent to handling the product must be minimised by applying the appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances.

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. Wash hands before breaks and after work. Provide eye wash fountain in work area. Have emergency shower available.

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.

Incompatible products

Do not store together with: oxidizing agents; Acids; Alkalis

Trade name: edding UV-Ink contained in: edding 8280 securitas uv-marker

Current version : 2.1.2, issued: 27.10.2022

Replaced version: 2.1.1, issued: 01.02.2017

Region: GB

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	xylene	1330-20-7	215-535-7
	2000/39/EC		
	Xylene, mixed isomers, pure		
	WEL short-term (15 min reference period)	442	mg/m ³ 100 ppm
	WEL long-term (8-hr TWA reference period)	221	mg/m ³ 50 ppm
	Skin resorption / sensibilisation	Skin	
	List of approved workplace exposure limits (WELs) / EH40		
	Xylene, o-, m-, p- or mixed isomers		
	WEL short-term (15 min reference period)	441	mg/m ³ 100 ppm
	WEL long-term (8-hr TWA reference period)	220	mg/m ³ 50 ppm
	Comments	Sk, BMGV	
2	2-butoxyethyl acetate	112-07-2	203-933-3
	2000/39/EC		
	2-Butoxyethyl acetate		
	WEL short-term (15 min reference period)	333	mg/m ³ 50 ppm
	WEL long-term (8-hr TWA reference period)	133	mg/m ³ 20 ppm
	Skin resorption / sensibilisation	Skin	
	List of approved workplace exposure limits (WELs) / EH40		
	2-Butoxyethyl acetate		
	WEL short-term (15 min reference period)	322	mg/m ³ 50 ppm
	WEL long-term (8-hr TWA reference period)	133	mg/m ³ 20 ppm
	Comments	Sk	
3	1-methoxy-2-propanol	107-98-2	203-539-1
	2000/39/EC		
	1-Methoxypropanol-2		
	WEL short-term (15 min reference period)	568	mg/m ³ 150 ppm
	WEL long-term (8-hr TWA reference period)	375	mg/m ³ 100 ppm
	Skin resorption / sensibilisation	Skin	
	List of approved workplace exposure limits (WELs) / EH40		
	1-Methoxypropan-2-ol		
	WEL short-term (15 min reference period)	560	mg/m ³ 150 ppm
	WEL long-term (8-hr TWA reference period)	375	mg/m ³ 100 ppm
	Comments	Sk	
4	cyclohexanone	108-94-1	203-631-1
	2000/39/EC		
	Cyclohexanone		
	WEL short-term (15 min reference period)	81.6	mg/m ³ 20 ppm
	WEL long-term (8-hr TWA reference period)	40.8	mg/m ³ 10 ppm
	Skin resorption / sensibilisation	Skin	
	List of approved workplace exposure limits (WELs) / EH40		
	Cyclohexanone		
	WEL short-term (15 min reference period)	82	mg/m ³ 20 ppm
	WEL long-term (8-hr TWA reference period)	41	mg/m ³ 10 ppm
	Comments	Sk, BMGV	
5	ethanol	64-17-5	200-578-6
	List of approved workplace exposure limits (WELs) / EH40		
	Ethanol		
	WEL long-term (8-hr TWA reference period)	1920	mg/m ³ 1000 ppm
6	ethylbenzene	100-41-4	202-849-4
	2000/39/EC		

Trade name: edding UV-Ink contained in: edding 8280 securitas uv-marker

Current version : 2.1.2, issued: 27.10.2022

Replaced version: 2.1.1, issued: 01.02.2017

Region: GB

Ethylbenzene					
WEL short-term (15 min reference period)	884	mg/m ³	200	ppm	
WEL long-term (8-hr TWA reference period)	442	mg/m ³	100	ppm	
Skin resorption / sensibilisation	Skin				
List of approved workplace exposure limits (WELs) / EH40					
Ethylbenzene					
WEL short-term (15 min reference period)	552	mg/m ³	125	ppm	
WEL long-term (8-hr TWA reference period)	441	mg/m ³	100	ppm	
Comments	Sk				

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.

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

>

240 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

State of aggregation	
liquid	
Form	
liquid	
Colour	
colourless	
Odour	
characteristic	
pH value	
Value	appr. 6.5
Boiling point / boiling range	
Value	> 70 °C
Reference pressure	1013 hPa
Melting point/freezing point	
No data available	

Trade name: edding UV-Ink contained in: edding 8280 securitas uv-marker

Current version : 2.1.2, issued: 27.10.2022

Replaced version: 2.1.1, issued: 01.02.2017

Region: GB

Decomposition temperature	
No data available	
Flash point	
Value	< 21 °C
Ignition temperature	
No data available	
Flammability	
No data available	
Lower explosion limit	
No data available	
Upper explosion limit	
No data available	
Vapour pressure	
Value	< 1100 hPa
Reference temperature	50 °C
Relative vapour density	
No data available	
Relative density	
No data available	
Density	
Value	0.80 - 1.00 g/cm ³
Reference temperature	20 °C
Solubility	
No data available	
Partition coefficient n-octanol/water (log value)	
No data available	
Kinematic viscosity	
Value	10 - 20 sec
Reference temperature	20 °C
Type	Efflux time
Method	DIN cup 4 mm
Solvent separation test	
Value	< 3 %
Reference temperature	20 °C
Particle characteristics	
No data available	

9.2 Other information

Other information
The physical data is that of the main component/s.

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

No data available.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Trade name: edding UV-Ink contained in: edding 8280 securitas uv-marker

Current version : 2.1.2, issued: 27.10.2022

Replaced version: 2.1.1, issued: 01.02.2017

Region: GB

None, if handled according to intended use.

10.5 Incompatible materials

Oxidizing agents; Acids; Alkalis

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information
11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity			
No	Substance name	CAS no.	EC no.
1	2-butoxyethyl acetate	112-07-2	203-933-3
LD50		2400	mg/kg bodyweight
Species	rat		
Source	Manufacturer		
2	1-methoxy-2-propanol	107-98-2	203-539-1
LD50		5660	mg/kg bodyweight
Species	rat		
Source	Manufacturer		

Acute dermal toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	edding UV-Ink contained in: edding 8280 securitas uv-marker
Comments	The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE dermal > 2000 mg/kg).

Acute dermal toxicity			
No	Substance name	CAS no.	EC no.
1	2-butoxyethyl acetate	112-07-2	203-933-3
LD50		1580	mg/kg bodyweight
Species	rabbit		
Source	Manufacturer		
2	1-methoxy-2-propanol	107-98-2	203-539-1
LD50		9999.99	mg/kg bodyweight
Species	rabbit		
Source	Manufacturer		

Acute inhalational toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	edding UV-Ink contained in: edding 8280 securitas uv-marker
ATE (Mixture)	15.8046
Route of exposure / physical from Method	Vapour
Comments	Calculation method according Regulation (EC) No 1272/2008, (CLP), annex I, part 3, section 3.1.3.6. The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE for inhalation: > 20.000 ppmV (gases), > 20 mg/l (vapours), > 5 mg/l (dusts/mists).

Acute inhalational toxicity
No data available

Skin corrosion/irritation
No data available

Trade name: edding UV-Ink contained in: edding 8280 securitas uv-marker

Current version : 2.1.2, issued: 27.10.2022

Replaced version: 2.1.1, issued: 01.02.2017

Region: GB

Serious eye damage/irritation

No data available

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

Reproduction toxicity

No data available

Carcinogenicity

No data available

STOT - single exposure

No	Substance name	CAS no.	EC no.
1	xylene	1330-20-7	215-535-7
Route of exposure		inhalational	
Target organ		respiratory tract	
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. When inhaled in larger quantities, the solvent vapours cause a narcotic effect. Repeated and prolonged skin contact may cause removal of natural fat from the skin and irritation of the skin.

11.2 Information on other hazards
Endocrine disrupting properties

No data available.

Other information

No data available.

SECTION 12: Ecological information
12.1 Toxicity
Toxicity to fish (acute)

No data available

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

No data available.

Trade name: edding UV-Ink contained in: edding 8280 securitas uv-marker

Current version : 2.1.2, issued: 27.10.2022

Replaced version: 2.1.1, issued: 01.02.2017

Region: GB

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

No data available.

12.8 Other information

Other information

Ecological data are not available.

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

Residues 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
Proper shipping name	PAINT RELATED MATERIAL
Special Provision 640	640D
Tunnel restriction code	D/E
Label	3

14.2 Transport IMDG

Class	3
Packing group	II
UN number	UN1263
Proper shipping name	PAINT RELATED MATERIAL
EmS	F-E, S-E
Label	3

14.3 Transport ICAO-TI / IATA

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

14.4 Other information

No data available.

14.5 Environmental hazards

Trade name: edding UV-Ink contained in: edding 8280 securitas uv-marker

Current version : 2.1.2, issued: 27.10.2022

Replaced version: 2.1.1, issued: 01.02.2017

Region: GB

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

14.6 Special precautions for user

No data available.

14.7 Maritime transport in bulk according to IMO instruments

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, MIXTURES AND ARTICLES

The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII. No 3, 40

The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

No	Substance name	CAS no.	EC no.	No
1	xylene	1330-20-7	215-535-7	75

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: P5b

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.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

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 section.

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

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H336	May cause drowsiness or dizziness.
H413	May cause long lasting harmful effects to aquatic life.

Notes relating to the identification, classification and labelling of substances and mixtures ((EC) No 1272/2008, Annex VI)

C	Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.
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Creation of the safety data sheet

UMCO GmbH

Georg-Wilhelm-Str. 187, D-21107 Hamburg

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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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Prod-ID 24928