

Trade name: White Marker  
 Product no.: X100-W

Status: 15.10.2010  
 Version: 1.0.0 / GB

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

**Identification of the substance or preparation**

Trade name

**White Marker**

**Use of the substance/preparation**

Ink for stationery products

**Company/undertaking identification**

**Address**

Pentel Bürobedarf-Handelsgesellschaft mbH  
 Lademannbogen 143  
 22339 Hamburg  
 GERMANY

Telephone no. +49 (0) 40 / 53 80 91 - 0

Fax no. +49 (0) 40 / 53 85 58 - 7

**Information provided by / telephone**

+49 (0) 40 / 53 80 91 - 0

**Emergency telephone**

For medical advice (in German and English):  
 +49 (0)551 192 40 (Giftinformationszentrum Nord)

**Advice on Safety Data Sheet**

sdb\_info@umco.de

**2.) Hazards identification**

**Classification**

F; R11 Highly flammable  
 R43 May cause sensitisation by skin contact.  
 R67 Vapours may cause drowsiness and dizziness.  
 Xi; R36 Irritating to eyes.

**Hazard symbols**

F Highly flammable  
 Xi Irritant

**R phrases**

11 Highly flammable.  
 36 Irritating to eyes.  
 43 May cause sensitisation by skin contact.  
 67 Vapours may cause drowsiness and dizziness.

**3.) Composition / information on ingredients**

**Hazardous ingredients**

**n-butyl acetate**

EC no.	204-658-1	Index no.	607-025-00-1	CAS no.	123-86-4
Concentration	> 10	< 30	%-b.w.		
Classification	R10 R66	R67			
Hazard symbols		R phrases	10-66-67		

Trade name: White Marker  
 Product no.: X100-W

Status: 15.10.2010  
 Version: 1.0.0 / GB

**propan-2-ol**

EC no.	200-661-7	Index no.	603-117-00-0	CAS no.	67-63-0
Concentration	> 10	< 30	%-b.w.		
Classification	F; R11	Xi; R36	R67		
Hazard symbols	F; Xi		R phrases	11-36-67	

**2-methoxy-1-methylethyl acetate**

EC no.	203-603-9	Index no.	607-195-00-7	CAS no.	108-65-6
Concentration	> 5	< 10	%-b.w.		
Classification	R10-Xi; R36				
Hazard symbols	Xi		R phrases	10-36	

**Resin acids and Rosin acids, hydrogenated, Me esters**

EC no.	232-476-2	Index no.	-	CAS no.	8050-15-5
Concentration	> 1	< 5	%-b.w.		
Classification	R43				
Hazard symbols	Xi		R phrases	43	

**Xylene**

EC no.	215-535-7	Index no.	601-022-00-9	CAS no.	1330-20-7
Concentration	> 1	< 5	%-b.w.		
Classification	R10	Xn; R20/21	Xi; R38		
Hazard symbols	Xn		R phrases	10-20/21-38	

**titanium-dioxide**

EC no.	236-675-5	Index no.	-	CAS no.	13463-67-7
Concentration	> 30	< 50	%-b.w.		
Classification	-				
Hazard symbols			R phrases	-	

**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.). Seek medical assistance.

**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 (CO<sub>2</sub>); Carbon monoxide (CO)

**Special protective equipment for fire-fighters**

Use self-contained breathing apparatus. Wear protective clothing.

Trade name: White Marker  
 Product no.: X100-W

Status: 15.10.2010  
 Version: 1.0.0 / GB

**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. Ensure adequate ventilation. Keep away sources of ignition. Do not inhale vapours. Avoid contact with skin, eyes and clothing.

**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.

**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.

**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**

None known

**Further information on storage conditions**

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

**8.) Exposure controls / personal protection**

**Exposure limit values**

**titanium-dioxide**

CAS no.	13463-67-7
EC no.	236-675-5

**List of approved workplace exposure limits (WELs) / EH40**

Titanium dioxide		
total inhalable dust		
TWA	10	mg/m <sup>3</sup>

**List of approved workplace exposure limits (WELs) / EH40**

Titanium dioxide		
respirable dust		
TWA	4	mg/m <sup>3</sup>

Trade name: White Marker  
 Product no.: X100-W

Status: 15.10.2010  
 Version: 1.0.0 / GB

**n-butyl acetate**

CAS no. 123-86-4  
 EC no. 204-658-1

**List of approved workplace exposure limits (WELs) / EH40**

Butyl acetate				
TWA	724	mg/m <sup>3</sup>	150	ml/m <sup>3</sup>
STEL	966	mg/m <sup>3</sup>	200	ml/m <sup>3</sup>

**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 <sup>3</sup>	400	ml/m <sup>3</sup>
STEL	1250	mg/m <sup>3</sup>	500	ml/m <sup>3</sup>

**2-methoxy-1-methylethyl acetate**

CAS no. 108-65-6  
 EC no. 203-603-9

**2000/39/EWG**

2-Methoxy-1-methylethylacetate				
TWA	275	mg/m <sup>3</sup>	50	ml/m <sup>3</sup>
STEL	550	mg/m <sup>3</sup>	100	ml/m <sup>3</sup>
Skin resorption / sensibilisation	Skin			

**List of approved workplace exposure limits (WELs) / EH40**

1-Methoxypropylacetate				
TWA	274	mg/m <sup>3</sup>	50	ml/m <sup>3</sup>
STEL	548	mg/m <sup>3</sup>	100	ml/m <sup>3</sup>
Skin resorption / sensibilisation	Sk			

**Xylene**

CAS no. 1330-20-7  
 EC no. 215-535-7

**2000/39/EWG**

Xylene, mixed isomers, pure				
TWA	221	mg/m <sup>3</sup>	50	ml/m <sup>3</sup>
STEL	442	mg/m <sup>3</sup>	100	ml/m <sup>3</sup>
Skin resorption / sensibilisation	Skin			

**List of approved workplace exposure limits (WELs) / EH40**

Xylene, o-, m-, p- or mixed isomers				
TWA	220	mg/m <sup>3</sup>	50	ml/m <sup>3</sup>
STEL	441	mg/m <sup>3</sup>	100	ml/m <sup>3</sup>
Skin resorption / sensibilisation	Sk			

**Exposure controls**

**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.

Trade name: White Marker  
 Product no.: X100-W

Status: 15.10.2010  
 Version: 1.0.0 / GB

**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**

Normal chemical work clothing.

**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	white
Odour	alcohol-like

**Important health, safety and environmental information**

**Changes in physical state**

Type	Boiling point	
Value	82,5	°C

**Flash point**

Value	17,3	°C
-------	------	----

**Density**

Value	1,2		g/cm <sup>3</sup>
Reference temperature	20	° C	

**Viscosity**

Type	dynamic		
Value	18		mPa*s
Reference temperature	20	°C	
Type	kinematic		
Value	15		mm <sup>2</sup> /s
Reference temperature	20	° C	

**10.) Stability and reactivity**

**Conditions to avoid**

Protect from sun.

**Materials to avoid**

None known.

**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

Trade name: White Marker  
 Product no.: X100-W

Status: 15.10.2010  
 Version: 1.0.0 / GB

dizziness. Repeated and prolonged skin contact may cause removal of natural fat from the skin and irritation of the skin. Irritating to eyes.

**Other information (chapter 11.)**

Product specific toxicological data are not known.

**12.) Ecological information**

**Other information**

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**

**Transport ADR/RID/ADN**

Class	3
Classification code	F1
Packing group	II
Hazard identification no.	33
UN number	1263
Technical name	PAINT
Special Provision 640	640D
Tunnel restriction code	D/E
Label	3

**Transport IMDG**

Class	3
Packing group	II
UN number	1263
Proper shipping name	PAINT
EmS	F-E+S-E
Label	3

**Transport ICAO/IATA**

Class	3
Packing 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).

Trade name: White Marker  
Product no.: X100-W

Status: 15.10.2010  
Version: 1.0.0 / GB

**Hazard symbols**

F Highly flammable  
Xi Irritant

**Hazardous component(s) to be indicated on label, contains:**

Resin acids and Rosin acids, hydrogenated, Me esters

**R phrases**

11 Highly flammable.  
36 Irritating to eyes.  
43 May cause sensitisation by skin contact.  
67 Vapours may cause drowsiness and dizziness.

**S phrases**

2 Keep out of the reach of children.  
24/25 Avoid contact with skin and eyes.  
37/39 Wear suitable gloves and eye/face protection.  
46 If swallowed, seek medical advice immediately and show this container or label.

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

Remarks Annex I, part 2, category 7 b

**16.) Other information****Relevant R-phrases (chapter 3):**

10 Flammable.  
11 Highly flammable.  
20/21 Harmful by inhalation and in contact with skin.  
36 Irritating to eyes.  
38 Irritating to skin.  
43 May cause sensitisation by skin contact.  
66 Repeated exposure may cause skin dryness or cracking.  
67 Vapours may cause drowsiness and dizziness.

**Department issuing safety data sheet**

UMCO Umwelt Consult GmbH  
Georg-Wilhelm-Str. 183 b, 21107 Hamburg, Germany  
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.