

<b>SAFETY DATA SHEET <sup>(1)</sup></b> for <b>DRAWING AND WRITING INSTRUMENTS</b> FOR DISTRIBUTORS	316-1
	LUMOCOLOR F, NON-PERMANENT
	YELLOW
	QUICK IDENTIFIER <sup>(2)</sup>

<b>SECTION I - GENERAL INFORMATION</b>		<i>REC'D JUNE 1995</i>	
Manufacturer's name STAEDTLER MARS GMBH & Co.	Telephone no. for further information (Area code + ...) 0049-911-3080-319		
Address D-90427 Nürnberg, Moosackerstr. 3 Germany	Telex no. 62311550 ma d	Telefax no. 0049-911-3080-400	
	Date 04-15-93	Prepared by KIMPEL	D3

<b>SECTION II - HAZARDOUS INGREDIENTS (SPECIFY COMPONENT)</b>				
Hazardous ingredients (chemical or common name(s)) <sup>(3)</sup>	CAS No.	TLV ppm;mg/m <sup>3</sup>	wt %	Component
1-Methoxypropanol-2	107-98-2	100 ppm TWA	25	INK
i-Propanol	67-63-0	400 ppm TWA	8	INK
Acid Yellow 37	--	--	5	INK

<b>SECTION III - PHYS./CHEM. CHARACTERISTICS (SPECIFY COMPONENT)</b>	
Appearance and odor: Fibre tip pen, containing waterbased ink, odorless	Component: Ink
Boiling point (°C): ≥ 82	Density (g/cm <sup>3</sup> ): <sup>(3)</sup> 1.03
Vapour density (air = 1): n.d.	Melting point (°C): n.a.
Solubility in water: completely	Evaporation rate (butyl acetate = 1): n.d.
Pressurized      yes <input type="checkbox"/> no <input checked="" type="checkbox"/>	% Volatile: <sup>(4)</sup> 57
Other characteristics: Combustible liquid	

<b>SECTION IV - FIRE AND EXPLOSION HAZARD DATA</b>			
Flash point (°C): 39.5	Explosion limits (Vol-%)	LEL: 1.2	UEL: 12
Method used: Closed cup			
Extinguishing media: Water spray jet, dry powder, carbon dioxide, foam			
Special fire fighting precautions: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.			Autoignition temp (°C): ≥ 270
List hazardous products of decomposition: Carbon dioxide, carbon monoxide			
Other advice: None			

**IMPORTANT**

(1) Do not leave any blank spaces. If required information is unavailable, unknown, or does not apply, so indicate as follows: not applicable = n.a.; not determined = n.d.  
 (2) Product type and common name (used on label and box)  
 (3) Cited in any National Regulations on the classification, packaging and labelling of dangerous substances, preparations, paints, varnishes, printing inks, adhesives and similar products.  
 (4) Part of the mixture which evaporates

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<p><b>SAFETY DATA SHEET <sup>(1)</sup></b> for <b>DRAWING AND WRITING INSTRUMENTS</b> FOR DISTRIBUTORS</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">316-2</td> </tr> <tr> <td style="text-align: center;">LUMOCOLOR F, NON-PERMANENT ..</td> </tr> <tr> <td style="text-align: center;">RED</td> </tr> <tr> <td style="text-align: center;">QUICK IDENTIFIER <sup>(2)</sup></td> </tr> </table>	316-2	LUMOCOLOR F, NON-PERMANENT ..	RED	QUICK IDENTIFIER <sup>(2)</sup>
316-2					
LUMOCOLOR F, NON-PERMANENT ..					
RED					
QUICK IDENTIFIER <sup>(2)</sup>					

**SECTION I - GENERAL INFORMATION** *REC'D - JUNE 1995*

Manufacturer's name: STAEDTLER MARS GMBH & Co.	Telephone no. for further information (Area code + ..): 0049-911-3080-319
Address: D-90427 Nürnberg, Moosackerstr. 3 Germany	Telex no. 62311550 ma d    Telefax no. 0049-911-3080-400
Date: 04-15-93	Prepared by: KIMPEL <span style="float: right;">03</span>

**SECTION II - HAZARDOUS INGREDIENTS (SPECIFY COMPONENT)**

Hazardous ingredients (chemical or common name(s)) <sup>(2)</sup>	CAS No.	TLV ppm:mg/m <sup>3</sup>	wt %	Component
i-Propanol	67-63-0	400 ppm TWA	25	INK
Acid Orange 7	633-96-5	--	4.9	INK
Acid Red 87	17373-87-1	--	13.4	INK

**SECTION III - PHYS./CHEM. CHARACTERISTICS (SPECIFY COMPONENT)**

Appearance and odor: Fibre tip pen, containing waterbased ink, odorless	Component: Ink
Boiling point (°C): ≥ 82	Density (g/cm <sup>3</sup> ): <sup>(3)</sup> 1.07
Vapour density (air = 1): n.d.	Melting point (°C): n.d.
Solubility in water: completely	Evaporation rate (butyl acetate = 1): n.d.
Pressurized    yes <input type="checkbox"/> no <input checked="" type="checkbox"/>	% Volatile: <sup>(4)</sup> 81
Other characteristics: Flammable liquid	

**SECTION IV - FIRE AND EXPLOSION HAZARD DATA**

Flash point (°C): 27.5 Method used: Closed cup	Explosion limits (Vol-%)	LEL: 1.2	UEL: 12
Extinguishing media: Water spray jet, dry powder, carbon dioxide, foam			
Special fire fighting precautions: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.			Autoignition temp (°C): 425
List hazardous products of decomposition: Carbon dioxide, carbon monoxide			
Other advice: None			

**IMPORTANT**

(1) Do not leave any blank spaces. If required information is unavailable, unknown, or does not apply, so indicate as follows:  
 - unknown = n.e.; not determined = n.d.  
 - not applicable = n.a.; not determined = n.d.

(2) Product type and common name (used on label and list)

(3) Cited in any National Regulations on the classification, packaging and labelling of dangerous substances, preparations, paints, varnishes, printing inks, adhesives and similar products.

(4) Part of the mixture which evaporates

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<b>SAFETY DATA SHEET <sup>(1)</sup></b> for <b>DRAWING AND WRITING INSTRUMENTS</b> FOR DISTRIBUTORS		316-3	
		LUMOCOLOR F, NON-PERMANENT	
		BLUE	
		QUICK IDENTIFIER <sup>(2)</sup>	
<b>SECTION I - GENERAL INFORMATION</b>			
Manufacturer's name: STAEDTLER MARS GMBH & Co.		Telephone no. for further information (Area code + ..) 0049-911-3080-319	
Address: D-90427 Nürnberg, Moosackerstr. 3 Germany		Telex no. 62311550 ma d Telefax no. 0049-911-3080-400	
		Date: 04-15-93 Prepared by: KIMPEL 03	
<b>SECTION II - HAZARDOUS INGREDIENTS (SPECIFY COMPONENT)</b>			
REC'D - JUNE 1995			
Hazardous ingredients (chemical or common name(s)) <sup>(3)</sup>	CAS No.	TLV ppm;mg/m <sup>3</sup>	wt % Component
i-Propanol	67-63-0	400 ppm TWA	15 INK
<b>SECTION III - PHYS./CHEM. CHARACTERISTICS (SPECIFY COMPONENT)</b>			
Appearance and odor: Fibre tip pen, containing waterbased ink, odorless		Component: Ink	
Boiling point (°C): ≥ 82		Density (g/cm <sup>3</sup> ): <sup>(3)</sup> 1.04	
Vapour density (air=1): n.d.		Melting point (°C): n.d.	
Solubility in water: completely		Evaporation rate (butyl acetate = 1): n.d.	
Pressurized: yes <input type="checkbox"/> no <input checked="" type="checkbox"/>		% Volatile <sup>(4)</sup> : 84	
Other characteristics: Flammable liquid			
<b>SECTION IV - FIRE AND EXPLOSION HAZARD DATA</b>			
Flash point (°C): 29.5 Method used: Closed cup		Explosion limits (Vol-%)	LEL: 1.2 UEL: 12
Extinguishing media: Water spray jet, dry powder, carbon dioxide, foam			
Special fire fighting precautions: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.			Autoignition temp (°C): n.a.
List hazardous products of decomposition: Carbon dioxide, carbon monoxide			
Other advice: None			
<b>IMPORTANT</b>			
(1) -Do not leave any blank spaces. If required information is unavailable, unknown, or does not apply, so indicate as follows: not applicable = n.a.; not determined = n.d.		(3) Cited in any National Regulations on the classification, packaging and labeling of dangerous substances, preparations, paints, varnishes, printing inks, adhesives and similar products.	
(2) Products type and common name (used on label and list)		(4) Part of the mixture which evaporates	

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<b>SAFETY DATA SHEET <sup>(1)</sup></b> for <b>DRAWING AND WRITING INSTRUMENTS</b> FOR DISTRIBUTORS	316-4
	LUMOCOLOR F, NON-PERMANENT
	ORANGE
	QUICK IDENTIFIER <sup>(2)</sup>

**SECTION I - GENERAL INFORMATION** *REC'D - JUNE 1995*

<b>Manufacturer's name</b> STAEDTLER MARS GMBH & Co. <b>Address</b> D-90427 Nürnberg, Moosackerstr. 3 Germany	<b>Telephone no. for further information</b> (Area code + ..) 0049-911-3080-319 <b>Telex no.</b> 62311550 ma d <b>Telefax no.</b> 0049-911-3080-400 <b>Date</b> 04-15-93 <b>Prepared by</b> KINPEL <b>D3</b>
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**SECTION II - HAZARDOUS INGREDIENTS (SPECIFY COMPONENT)**

Hazardous ingredients (chemical or common name(s)) <sup>(3)</sup>	CAS No.	TLV ppm;mg/m <sup>3</sup>	wt %	Component
1-Methoxypropanol-2	107-98-2	100 ppm TWA	18	INK

**SECTION III - PHYS./CHEM. CHARACTERISTICS (SPECIFY COMPONENT)**

<b>Appearance and odor:</b> Fibre tip pen, containing waterbased ink, odorless	<b>Component:</b> Ink
<b>Boiling point (°C):</b> > 100	<b>Density (g/cm<sup>3</sup>):</b> <sup>(3)</sup> 1.04
<b>Vapour density (air = 1):</b> n.d.	<b>Melting point (°C):</b> n.d.
<b>Solubility in water:</b> completely	<b>Evaporation rate</b> (butyl acetate = 1): n.d.
<b>Pressurized</b> yes <input type="checkbox"/> no <input checked="" type="checkbox"/>	<b>% Volatile<sup>(4)</sup></b> 90
<b>Other characteristics:</b> Combustible liquid	

**SECTION IV - FIRE AND EXPLOSION HAZARD DATA**

<b>Flash point (°C):</b> 70 <b>Method used:</b> Closed cup	<b>Explosion limits (Vol-%)</b>	<b>LEL:</b> n.a.	<b>UEL:</b> n.a.
<b>Extinguishing media:</b> Water spray jet, dry powder, carbon dioxide, foam			
<b>Special fire fighting precautions:</b> Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.		<b>Autoignition temp (°C):</b> ≥ 270	
<b>List hazardous products of decomposition:</b> Carbon dioxide, carbon monoxide			
<b>Other advice:</b> None			

**IMPORTANT**

(1) Do not leave any blank spaces. If required information is unavailable, unknown, or does not apply, so indicate as follows: not applicable = n.a.; not determined = n.d.  
 (2) Products type and common name (used on label and list)  
 (3) Cited in any National Regulations on the classification, packaging and labelling of dangerous substances, preparations, paints, varnishes, printing inks, adhesives and similar products.  
 (4) Part of the mixture which evaporates

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<b>SAFETY DATA SHEET <sup>(1)</sup></b> for <b>DRAWING AND WRITING INSTRUMENTS</b> FOR DISTRIBUTORS	316-5
	LUMOCOLOR F, NON-PERMANENT
	GREEN
	QUICK IDENTIFIER <sup>(2)</sup>

**SECTION I - GENERAL INFORMATION**

REC'D - JUNE 1995

Manufacturer's name STAEDTLER MARS GMBH & Co.	Telephone no. for further information (Area code + ..) 0049-911-3080-319
Address D-90427 Nürnberg, Moosäckerstr. 3 Germany	Telex no. 62311550 ma d    Telefax no. 0049-911-3080-400
Date 04-15-93	Prepared by KINPEL    D3

**SECTION II - HAZARDOUS INGREDIENTS (SPECIFY COMPONENT)**

Hazardous ingredients (chemical or common name(s)) <sup>(3)</sup>	CAS No.	TLV ppm;mg/m <sup>3</sup>	wt %	Component
i-Propanol	67-63-0	400 ppm TWA	19	INK

**SECTION III - PHYS./CHEM. CHARACTERISTICS (SPECIFY COMPONENT)**

Appearance and odor: Fibre tip pen, containing waterbased ink, odorless	Component: Ink
Boiling point (°C):    ≥ 82	Density (g/cm <sup>3</sup> ): <sup>(3)</sup> 1.01
Vapour density (air = 1): n.d.	Melting point (°C): n.d.
Solubility in water:    completely	Evaporation rate (butyl acetate = 1): n.d.
Pressurized            yes <input type="checkbox"/> no <input checked="" type="checkbox"/>	% Volatile <sup>(4)</sup> 90
Other characteristics: Flammable liquid	

**SECTION IV - FIRE AND EXPLOSION HAZARD DATA**

Flash point (°C): 27.5 Method used: Closed cup	Explosion limits (Vol-%)	LEL: 2.0	UEL: 12
Extinguishing media: Water spray jet, dry powder, carbon dioxide, foam			
Special fire fighting precautions: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.			Autoignition temp (°C): 425
List hazardous products of decomposition: Carbon dioxide, carbon monoxide			
Other advice: None			

**IMPORTANT**

(1) Do not leave any blank spaces. If required information is unavailable, unknown, or does not apply, so indicate as follows: not applicable = n.e.; not determined = n.d.

(2) Products type and common name (used on label and list)

(3) Cited in any National Regulations on the classification, packaging and labelling of dangerous substances, preparations, paints, varnishes, printing inks, adhesives and similar products.

(4) Part of the mixture which evaporates

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<b>SAFETY DATA SHEET <sup>(1)</sup></b> for <b>DRAWING AND WRITING INSTRUMENTS</b> FOR DISTRIBUTORS		316-6 LUMOCOLOR F, NON-PERMANENT VIOLET QUICK IDENTIFIER <sup>(2)</sup>																
<b>SECTION I - GENERAL INFORMATION</b>																		
Manufacturer's name: STAEDTLER MARS GMBH & Co.		Telephone no. for further information (Area code + ..) 0049-911-3080-319																
Address: D-90427 Nürnberg, Moosäckerstr. 3 Germany		Telex no. 62311550 ma d Telefax no. 0049-911-3080-400																
		Date: 04-15-93 Prepared by: KINPEL D3																
<b>SECTION II - HAZARDOUS INGREDIENTS (SPECIFY COMPONENT)</b>																		
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Hazardous ingredients (chemical or common name(s)) <sup>(3)</sup></th> <th style="width: 10%;">CAS No.</th> <th style="width: 15%;">TLV ppm/mg/m<sup>3</sup></th> <th style="width: 10%;">wt %</th> <th style="width: 15%;">Component</th> </tr> </thead> <tbody> <tr> <td>1-Methoxypropanol-2</td> <td>107-98-2</td> <td>100 ppm TWA</td> <td>17</td> <td>INK</td> </tr> <tr> <td>Acid Red 87</td> <td>17373-87-1</td> <td>--</td> <td>4</td> <td>INK</td> </tr> </tbody> </table>				Hazardous ingredients (chemical or common name(s)) <sup>(3)</sup>	CAS No.	TLV ppm/mg/m <sup>3</sup>	wt %	Component	1-Methoxypropanol-2	107-98-2	100 ppm TWA	17	INK	Acid Red 87	17373-87-1	--	4	INK
Hazardous ingredients (chemical or common name(s)) <sup>(3)</sup>	CAS No.	TLV ppm/mg/m <sup>3</sup>	wt %	Component														
1-Methoxypropanol-2	107-98-2	100 ppm TWA	17	INK														
Acid Red 87	17373-87-1	--	4	INK														
<b>SECTION III - PHYS./CHEM. CHARACTERISTICS (SPECIFY COMPONENT)</b>																		
Appearance and odor: Fibre tip pen, containing waterbased ink, odorless		Component: Ink																
Boiling point (°C): ≥ 100		Density (g/cm <sup>3</sup> ): <sup>(3)</sup> 1.05																
Vapour density (air = 1): n.d.		Melting point (°C): n.d.																
Solubility in water: completely		Evaporation rate (butyl acetate = 1): n.d.																
Pressurized: yes <input type="checkbox"/> no <input checked="" type="checkbox"/>		% Volatile: <sup>(4)</sup> 87																
Other characteristics: Combustible liquid																		
<b>SECTION IV - FIRE AND EXPLOSION HAZARD DATA</b>																		
Flash point (°C): 69 Method used: Closed cup		Explosion limits (Vol-%): LEL: 1.7 UEL: 11.5																
Extinguishing media: Water spray jet, dry powder, carbon dioxide, foam																		
Special fire fighting precautions: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.		Autoignition temp (°C): 270																
List hazardous products of decomposition: Carbon dioxide, carbon monoxide																		
Other advice: None																		
<b>IMPORTANT</b>																		
(1) Do not leave any blank spaces. If required information is unavailable, unknown, or does not apply, so indicate as follows: not applicable = n.a.; not determined = n.d.		(3) Cited in any National Regulations on the classification, packaging and labelling of dangerous substances, preparations, paints, varnishes, printing inks, adhesives and similar products.																
(2) Products type and common name (used on label and list)		(4) Part of the mixture which evaporates																

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<b>SAFETY DATA SHEET</b> <sup>(1)</sup> for <b>DRAWING AND WRITING INSTRUMENTS</b> FOR DISTRIBUTORS	316-7
	LUMOCOLOR F, NON-PERMANENT
	BROWN
	QUICK IDENTIFIER <sup>(2)</sup>

<b>SECTION I - GENERAL INFORMATION</b> <i>REC'D - JUNE 1995</i>	
Manufacturer's name: STAEDTLER MARS GMBH & Co.	Telephone no. for further information (Area code + ..) 0049-911-3080-319
Address: D-90427 Nürnberg, Moosackerstr. 3 Germany	Telex no. 62311550 ma d    Telefax no. 0049-911-3080-400
	Date: 04-15-93      Prepared by: KINPEL      D3

<b>SECTION II - HAZARDOUS INGREDIENTS (SPECIFY COMPONENT)</b>				
Hazardous ingredients (chemical or common name(s)) <sup>(3)</sup>	CAS No.	TLV ppm;mg/m <sup>3</sup>	wt %	Component
1-Methoxypropanol-2	107-98-2	100 ppm TWA	17	INK
Acid Red 87	17373-87-1	--	2.5	INK

<b>SECTION III - PHYS./CHEM. CHARACTERISTICS (SPECIFY COMPONENT)</b>	
Appearance and odor: Fibre tip pen, containing waterbased ink, odorless	Component: Ink
Boiling point (°C): ≥ 100	Density (g/cm <sup>3</sup> ): <sup>(3)</sup> 1.07
Vapour density (air = 1): n.d.	Melting point (°C): n.d.
Solubility in water: completely	Evaporation rate (butyl acetate = 1): n.d.
Pressurized:    yes <input type="checkbox"/> no <input checked="" type="checkbox"/>	% Volatile: <sup>(4)</sup> 85
Other characteristics: Combustible liquid	

<b>SECTION IV - FIRE AND EXPLOSION HAZARD DATA</b>			
Flash point (°C): 70	Explosion limits (Vol-%)	LEL: 1.7	UEL: 11.5
Method used: Closed cup			
Extinguishing media: Water spray jet, dry powder, carbon dioxide, foam			
Special fire fighting precautions: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.			Autoignition temp (°C): 270
List hazardous products of decomposition: Carbon dioxide, carbon monoxide			
Other advice: None			

<b>IMPORTANT</b>	
(1) Do not leave any blank spaces. If required information is unavailable, unknown, or does not apply, so indicate as follows: 'not applicable' = n.s.; not determined = n.d.	(3) Cited in any National Regulations on the classification, packaging and labeling of dangerous substances, preparations, paints, varnishes, printing inks, adhesives and similar products.
(2) Products type and common name (used on label and list)	(4) Part of the mixture which evaporates

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**SECTION V - STORAGE HAZARDS**

Stability unstable  Conditions to avoid: Excessive heat  
 stable

Incompatibility (materials to avoid): Strong oxidizers

List hazardous products of decomposition: Carbon dioxide, carbon monoxide if burning.

Hazardous polymerization May occur  Conditions to avoid:  
 Will not occur

**SECTION VI - HEALTH HAZARDS**

1. Acute: <sup>(a)</sup> None if used as directed. 2. Chronic: <sup>(b)</sup> None if used as directed.

Signs and symptoms of overexposure: Not known

Medical conditions generally aggravated by exposure: Not known

Chemical listed as carcinogen: None

**Emergency and first aid procedures**

Routes of entry	Emergency procedures	Seek medical advice
Inhalation	n.a.	<input type="checkbox"/>
Eyes	Rinse with copious amounts of water for at least 15 minutes.	<input checked="" type="checkbox"/>
Skin	Wash with water and soap.	<input type="checkbox"/>
Ingestion	Wash out mouth with water provided person is conscious.	<input checked="" type="checkbox"/>

**SECTION VII - SPECIAL PRECAUTIONS**

Special precautions to be taken in handling: No special precautions recommended.

Other precautions: None

Steps to be taken in case materials is released or spilled: Cover with absorbent material and collect.

Waste disposal methods: Together with household refuse. Observe all state, federal and local regulations.

**SECTION VIII - SPECIAL PROTECTION INFORMATION/CONTROL MEASURES**

Respiratory protection (specify type): Not required

Ventilation: Not required      Local exhaust: None      Mechanical (general): None      Other: None

Skin and eye protection: No special protection required in normal use. Avoid contact with ink.

Work/hygienic practices: As usual.

(5) LD50 shall be noted if known      not applicable = n.a.      not determined = n.d.  
 (6) health hazard by ingestion or inhalation shall be noted if known.

The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties. These products should be stored, handled, and used in conformity with the application they are intended for and in conformity with any legal regulation. The information provided above is for general guidance only without responsibility, liability and warranty on our part and is subject to change without notice.



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<b>SAFETY DATA SHEET <sup>(1)</sup></b> for <b>DRAWING AND WRITING INSTRUMENTS</b> FOR DISTRIBUTORS	<b>316-9</b>
	LUMOCOLOR F, NON-PERMANENT
	BLACK
	<b>QUICK IDENTIFIER <sup>(2)</sup></b>

<b>SECTION I - GENERAL INFORMATION</b>		<i>REC'D - JUNE 1995</i>
<b>Manufacturer's name</b> STAEDTLER MARS GMBH & Co.	<b>Telephone no. for further information</b> (Area code + ..) 0049-911-3080-319	
<b>Address</b> D-90427 Nürnberg, Moosäckerstr. 3 Germany	<b>Telex no.</b> 62311550 ma d <b>Telefax no.</b> 0049-911-3080-400	
	<b>Date</b> 04-15-93	<b>Prepared by</b> KINPEL <b>03</b>

SECTION II - HAZARDOUS INGREDIENTS (SPECIFY COMPONENT)				
Hazardous ingredients (chemical or common name(s)) <sup>(3)</sup>	CAS No.	TLV ppm;mg/m <sup>3</sup>	wt %	Component
i-Propanol	67-63-0	400 ppm TWA	16	INK
1-Methoxypropanol-2	107-98-2	100 ppm TWA	8	INK
1,2-Propandiol	57-55-6	--	4	INK
Acid Brown 4	--	--	2.3	INK
Acid Red 88	1658-56-6	--	2.3	INK

SECTION III - PHYS./CHEM. CHARACTERISTICS (SPECIFY COMPONENT)	
<b>Appearance and odor:</b> Fibre tip pen, containing waterbased ink, odorless	<b>Component:</b> Ink
<b>Boiling point (°C):</b> ≥ 82	<b>Density (g/cm<sup>3</sup>): <sup>(3)</sup></b> 1.03
<b>Vapour density (air = 1):</b> n.d.	<b>Melting point (°C):</b> n.d.
<b>Solubility in water:</b> completely	<b>Evaporation rate</b> (butyl acetate = 1): n.d.
<b>Pressurized</b> yes <input type="checkbox"/> no <input checked="" type="checkbox"/>	<b>% Volatile:<sup>(4)</sup></b> 84
<b>Other characteristics:</b> Flammable liquid	

SECTION IV - FIRE AND EXPLOSION HAZARD DATA			
<b>Flash point (°C):</b> 29	<b>Explosion limits (Vol-%)</b>	<b>LEL:</b> 1.2	<b>UEL:</b> 12
<b>Method used:</b> Closed cup			
<b>Extinguishing media:</b> Water spray jet, dry powder, carbon dioxide, foam			
<b>Special fire fighting precautions:</b> Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.			<b>Autoignition temp (°C):</b> ≥ 270
<b>List hazardous products of decomposition:</b> Carbon dioxide, carbon monoxide			
<b>Other advice:</b> None			

**IMPORTANT**

(1) Do not leave any blank space. If required information is unavailable, unknown, or does not apply, so indicate as follows: not applicable = n.a.; not determined = n.d.

(2) Products type and common name (used on label and list)

(3) Cited in any National Regulations on the classification, packaging and labelling of dangerous substances, preparations, paints, varnishes, printing inks, adhesives and similar products.

(4) Part of the mixture which evaporates

<b>SECTION V - STORAGE HAZARDS</b>		
Stability <input type="checkbox"/> unstable <input checked="" type="checkbox"/> stable <input type="checkbox"/> Conditions to avoid: Excessive heat		
Incompatibility (materials to avoid): Strong oxidizers		
List hazardous products of decomposition: Carbon dioxide, carbon monoxide if burning.		
Hazardous polymerization      May occur <input type="checkbox"/> Will not occur <input checked="" type="checkbox"/> Conditions to avoid:		
<b>SECTION VI - HEALTH HAZARDS</b>		
1. Acute: <sup>(6)</sup> None if used as directed.		2. Chronic: <sup>(6)</sup> None if used as directed.
Signs and symptoms of overexposure: Not known		
Medical conditions generally aggravated by exposure: Not known		
Chemical listed as carcinogen: None		
<b>Emergency and first aid procedures</b>		
Routes of entry	Emergency procedures	Seek medical advice
Inhalation	n.a.	<input type="checkbox"/>
Eyes	Rinse with copious amounts of water for at least 15 minutes.	<input checked="" type="checkbox"/>
Skin	Wash with water and soap.	<input type="checkbox"/>
Ingestion	Wash out mouth with water provided person is conscious.	<input checked="" type="checkbox"/>
<b>SECTION VII - SPECIAL PRECAUTIONS</b>		
Special precautions to be taken in handling: No special precautions recommended.		
Other precautions: None		
Steps to be taken in case materials is released or spilled: Cover with absorbent material and collect.		
Waste disposal methods: Together with household refuse. Observe all state, federal and local regulations.		
<b>SECTION VIII - SPECIAL PROTECTION INFORMATION/CONTROL MEASURES</b>		
Respiratory protection (specify type): Not required		
Ventilation: Not required	Local exhaust: None	Mechanical (general): None      Other: None
Skin and eye protection: No special protection required in normal use. Avoid contact with ink.		
Work/hygienic practices: As usual.		
<small>(6) LD50 shall be noted if known      not applicable = n.a.      not determined = n.d.                  (8) health hazard by ingestion or inhalation shall be noted if known.</small>		

The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties. These products should be stored, handled, and used in conformity with the application they are intended for and in conformity with any legal regulation. The information provided above is for general guidance only without responsibility, liability and warranty on our part and is subject to change without notice.