

**SAFETY DATA SHEET <sup>(1)</sup>**

for  
**DRAWING AND WRITING INSTRUMENTS**  
FOR DISTRIBUTORS

**316-9**
**LUMOCOLOR F, NON-PERMANENT**
**BLACK**
**QUICK IDENTIFIER <sup>(2)</sup>**
**SECTION I - GENERAL INFORMATION**

<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> KIMPEL 03

**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-Propanediol	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>(4)</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>Method used:</b> Closed cup	<b>Explosion limits (Vol-%)</b>	<b>LEL:</b> 1.2	<b>UEL:</b> 12
<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) - Product type and common name (used on label and list)

- (3) Cited in any National Regulations on the classification, packaging and labeling of dangerous substances, preparations, paints, varnishes, printing inks, adhesives and similar products.  
 (4) Part of the mixture which evaporates