

SAFETY DATA SHEET ⁽¹⁾ for DRAWING AND WRITING INSTRUMENTS FOR DISTRIBUTORS	318-9
	LUMOCOLOR F, PERMANENT
	,BLACK
	QUICK IDENTIFIER ⁽²⁾

SECTION I - GENERAL INFORMATION

Manufacturer's name STAEDTLER MARS GMBH & Co. Address D-90427 Nürnberg, Hoosäckerstr. 3 Germany	Telephone no. for further information (Area code + ..) 0049-911-3080-319 Telex no. 62311550 ma d Telefax no. 0049-911-3080-400 Date 04-15-93 Prepared by KINPEL 03
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SECTION II - HAZARDOUS INGREDIENTS (SPECIFY COMPONENT)

Hazardous ingredients (chemical or common name(s)) ⁽³⁾	CAS No.	TLV ppm/mg/m ³	wt %	Component
Ethanol	64-17-5	1000 ppm TWA	74	INK
Lactic Acid Ethyl Ester	687-47-8	--	8.2	INK
Basic Blue 8; LD50 rat oral: 1,500 mg/kg	--	--	1.6	INK
Basic Red 28	--	--	5	INK
Basic Green 1; LD50 rat oral: 380 mg/kg	633-03-4	--	5	INK

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

Appearance and odor: Fibre tip pen, containing solvent based ink, alcoholic odor.	Component: Ink
Boiling point (°C): > 78	Density (g/cm³): ⁽⁴⁾ 0.88
Vapour density (air = 1): n.d.	Melting point (°C): n.d.
Solubility in water: 88 X	Evaporation rate (butyl acetate = 1): n.d.
Pressurized yes <input type="checkbox"/> no <input checked="" type="checkbox"/>	% Volatile: ⁽⁴⁾ approx. 82
Other characteristics: Flammable liquid	

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash point (°C): 14.5 Method used: Closed cup	Explosion limits (Vol-%)	LEL: 1	UEL: 17
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): > 400	
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) 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