

# P R O D U C T   D A T A   S H E E T


## Lumocolor permanent

Universal pens for overhead film and almost all surfaces

STAEDTLER Lumocolor universal pens are subject to a comprehensive quality inspection and are not harmful if used in the proper manner.

EC safety data sheets are not required for Lumocolor universal pens. They are products and not substances or preparations classified as hazardous under European chemical law.

EC safety data sheets for the refill station can be provided to commercial buyers where applicable.

Lumocolor permanent 313·314·317·318		
Ink solvent	n-propanol / ethanol	
Colouring agent	organic dyestuffs - colouring agents containing toxic heavy metals are not used -	
Plastics *	barrel and protector cap	PP
	refill station	PP
Special features	<p>DRY SAFE pens can be left uncapped for days without drying up (test ISO 554)</p> <p>waterproof - <u>cannot</u> be wiped off using water</p> <p>colours black, yellow, orange and brown are lightfast</p> <p>refillable using refill station 487 17 – colours red, blue, green, black</p> <p>313 S and 317 M are suitable for use on CD and DVD</p>	

\* Plastics

PP = polypropylene  
STAEDTLER does not use cadmium or lead-based colouring agents for the colouring of plastics.

### Important notes on application

No ink migration when used on STAEDTLER overhead film. · Please test on other surfaces first!

Not suitable for use on coated surfaces whose top layer can be easily removed - small particles hinder the ink flow.

### Standards

ISO 11540	<p>'Caps for writing and marking instruments intended for use by children up to 14 years of age - Safety requirements'</p> <p>Ventilated caps reduce the danger of asphyxiation for children up to the age of 14 should caps be accidentally swallowed.</p>
ASTM D - 4236	<p>Tested for the USA by toxicologists from the Art &amp; Creative Material Institute, Inc. (ACMI)</p> <p>The above mentioned products conform to the US standard ASTM D-4236</p>
ISO 554	Standard atmospheres for conditioning and/or testing – Specifications

The standard ISO 11540 is adhered to for safety reasons, although these products are not intended for children's use.

The information contained herein is based on our present state of knowledge and does not provide warranty for any features. The suitability of our products for applications intended by the user has to be checked at the user's own risk.