

## Chemical product data sheet

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### Article description

STAEDTLER Lumocolor **permanent universal pens 313, 314, 317, 318 - permanent pen 310 CDS**

### Constituents

Inks: Alcohol mix- e.g. propanol, ethyl alcohol  
Dyestuffs – colouring agents containing toxic heavy metals are not used  
Resin-based binding agent and additives

Holder: Plastics:

Barrel	PP
Cap	PP
Sealing (Cap)	PE
Refill station 487 17:	PP

Packaging: STAEDTLER Box: PP

PP: polypropylene, PE: polyethylene

### Toxicology

Not harmful if used in the proper manner.  
STAEDTLER products are subject to comprehensive quality inspections.  
REACH SAFETY DATA SHEETS for the refill station 487 17 can be provided to commercial buyers.

### Conformity

STAEDTLER Lumocolor permanent pens 310, 313, 314, 317, 318 meet the standards:

ISO 11540	'Caps for writing and marking instruments intended for use by children up to 14 years of age – Safety requirements'. Ventilated caps reduce the danger of asphyxiation for children up to the age of 14 should caps be swallowed accidentally.
ISO 554	Standard atmospheres for conditioning and/or testing – Specifications. This standard contains the test parameters for the dry safe properties.
ASTM D-4236 For 313, 314, 317, 318	Tested for the USA by toxicologists from the Art & Creative Material Institute, Inc. (ACMI) The above mentioned products conform to the US standard ASTM D-4236.

### Usage notes

Dry safe: Can be left uncapped for days without drying up.

Marking: 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.

Airplane-safe: Automatic pressure equalisation prevents the pens from leakage during flight.

Refill 487 17: Available for the colours red, blue, green and black.