

Chemical product data sheet

address

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Article description

STAEDTLER Lumocolor permanent special 319

Constituents

Ink: Alcohol/ketone mix— e.g. ethyl alcohol, 1-methoxypropane-2-ol

Xylol and toluene are not used

Dyestuffs - colouring agents containing toxic heavy metals are not used

Holder: Plastics:

Barrel: PP
Cap: PP
Sealing (Cap): PE

PP: polypropylene, PE: polyethylene

Toxicology

Not harmful if used in the proper manner.

STAEDTLER products are subject to comprehensive quality inspections.

Conformity

STAEDTLER Lumocolor permanent special 319 meets 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.

Usage notes

Marking: For many special applications such as coated surfaces, nano coatings, optical glass and

laboratory glass.

The black Lumocolor permanent special F and M can also be used for marking laundry with and for

a variety of outdoor applications, e.g. as a "garden marker"

Not suitable for use on coated surfaces whose top layer can be easily removed.

Not suitable for use on overhead film.

Lightfast: Extremely lightfast — Testing on smooth surfaces: black for 7 years/ red for 1 year

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

Line widths: 319 S/M-9 (black) 0.4 mm

319 M (black) 1.0 mm 319 F-2, 319 F-9 (red and black) 0.6 mm

We reserve the right to revise product compounds for development and improvement reasons. The suitability of our products for applications intended by the user has to be verified at the user's own risk.

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