

Declaration on the use of

Low molecular weight photoinitiators in standard UV printing inks and varnishes not intended for “NPH” (nutrition, pharma and hygiene) applications

In the manufacture of most of the standard UV printing inks and varnishes supplied in general by the printing ink industry, thus also by Siegwerk, for **non-NPH applications**,

2,4,6-Trimethylbenzophenone (CAS 954-16-5),
Methyl-2-benzoylbenzoate (also called MBB, CAS 606-28-0),
2,2-Dimethoxy-2-phenylacetophenone (also called benzil dimethyl ketal BDK, CAS 24650-42-8),
2-Hydroxy-2-methylpropiophenone (CAS 7473-98-5),
2,4-Diethyl-9H-thioxanthen-9-one (also called DETX, CAS 82799-44-8),
4,4-Bis(diethylamino)benzophenone (also called EMK, CAS 90-93-7),
Hydroxycyclohexyl phenyl ketone (also called HCPK, CAS 947-19-3)
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate (so called TPO-L, CAS 84434-11-7)
and **many other low molecular weight photoinitiators** are used as intentionally added ingredients.

These photoinitiators are basically unsuitable for NPH applications. There is nearly always a potential risk of transfer into foodstuffs (so-called migration) and thus ingestion, and/or skin absorption via indirect or direct contact with a printed surface.

On the other hand, in case of **packaging of non-NPH articles**, intake via ingestion into the body can mainly be excluded. The filled goods are not eaten, not intended for skin resorption and/or long-time direct contact with mucous membranes. Therefore, **the potential ability for migration of said low molecular weight photoinitiators is by no way problematic**. However, certain special packaging for cosmetic products with comparatively relevant risk of transfer of potential migrants from printed layers to the human organism, i.e. via oral application or long-term contact with skin or mucous membranes, should be assessed differently. For more detailed information, please refer to Siegwerk Customer Information “Printing Inks for Packaging of Cosmetic Products”.

With regard to other health concerns, such as short term, non-intentional direct contact of printed layers with skin and/or mucous membranes (mouth/lip contact), Siegwerk can assure you that in general, **all products** supplied by Siegwerk are formulated in accordance with the principles of the EuPIA Exclusion Policy (www.eupia.org).

Regardless, it is important to also note that in general, customers should always follow the ink maker’s recommendations as laid down in the technical data sheet (TDS).

The information in this document reflects Siegwerk’s policy and commitments. This statement is valid without signature.