

Declaration on the use of

Low molecular weight photoinitiators in standard UV printing inks and varnishes for non-food applications

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

Benzophenone (CAS 119-61-9),
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.

The suitability of said photoinitiators for food packaging applications is basically not given, since there is nearly always a **potential risk of transfer into foodstuff** (the so-called migration) and thus ingestion.

On the other hand, in case of packaging of non-food articles, intake via ingestion into the body can mainly be excluded. The filled goods are not eaten or not intended for skin resorption 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, needs a different assessment. For detailed information, please refer to the Customer Information "Printing Inks for Packaging of Cosmetic Products".

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

In general, customers should always follow the ink maker's recommendations as laid down in the technical data sheet (TDS).