

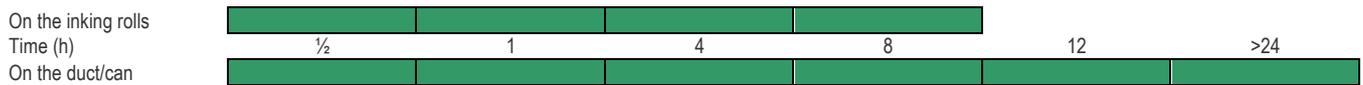
# Pantone® Bases



These inks were realized under the requirement of Pantone® Company. Budacolor has the license to produce Pantone® colors. The resistance is displayed according to the international rules and they concerned to the printed ink. The printing (like screens or mixed with other inks) could change these resistances. The printability and other main characteristics are based on Euro process series, all colors are based on vegetable oils.

Highlights of Pantone®		Application's fields	
Pigment/Concentration		Uncoated/Natural/recycling	
Tack		Gloss coated	
Gloss		Matt coated	
Setting		Carton	
Rub-resistance		Plastic/Metal/Synthetic	

## Pantone® – time of drying on the printing machine



Pantone®	Light Fastness	Alkali	Solvent resist.	Hot lamin.	Acrylic	UV Varnishing
Yellow	5	+	+	+	+	+
Warm Red	3	-	+	+	+	-
Rubine Red	4	-	+	+	+	+
Rhodamine Red	3	+	+	+	+	-
Purple	3	+/-	+	+	+	-
Violet	3	+/-	+	+	+	-
Reflex Blue	3	+/-	+	+	+	-
Process Blue	8	+	+	+	+	+
Green	8	+	+	+	+	+
Black	8	+	+	+	+	+
Transparent White	-	+	+	+	+	+
Yellow 012	5	+	+	+	+	+
Orange 021	5	+	+	+	+	+
Red 032	6	+	+	+	+	-
Blue 072	3	+/-	+	+	+	-

In case of special request, like mixing station's demand, please refer to your Budacolor's contacts.

### Packaging of Pantone®

1 KG Vacuum can	Yes	Standard
2,5 KGs Vacuum can	Yes	Not in stock
20 KGs Metal pail	Yes	Not in stock
190 KGs Metal drum	Yes	Not in stock
In case of other demand please refer to your Budacolor's contact.		

### Declaration concerning Components and Products

As there are no specific regulations concerning printing inks and varnishes, Budacolor -like other ink suppliers- is obliged to follow regulations in the EU not directly related to printing inks.

## Regulation 1935/2004

Article 3 of the Regulation 1935/2004 (impact on food) demands, that materials and articles do not transfer their constituents to food in quantities which could endanger human health or bring about an unacceptable change in the composition of the food or bring about a deterioration in the organoleptic characteristics thereof.

We advise you to use for printing on primary food packaging printing inks which is recommend for this application and which have a low-migration formulation.

A possible impact on the quality of food does not solely depend on the printing ink itself but is depending on the complete production chain (ink, UV-power, substrate, etc.). For this reason we can generally not confirm compliance to Regulation 1935/2004 only based on the composition of the ink.

## Directive 2002/72/EC

This so-called "plastics directive" lists substances which are allowed to get into direct contact with foodstuffs. It also sets migration limits for each substance up to which the substances are allowed to migrate into the food (listed in the annex of the directive and its amendments). Printing ink components are not allowed to get into direct contact with foodstuffs and are therefore not included in this list. This is the reason why we can not confirm the conformity of our products with directive 2002/72/EC.

## Directive 2007/19/EC

This Directive, which is an amendment to the Plastics Directive 2002/72/EC, provides limits for substances not listed in the corresponding annexes of the Plastics Directive and amendments. Most components used in printing inks are not intended to get into direct contact with foodstuff. Therefore directive 2007/19/EC does not indicate specific migration limits for them. For these substances without SML a general limit of <10ppb (10µg/kg food) for the transfer into food has to be undercut (Article 7). Again, many different factors have an impact on the migration (see remark under 1935/2004). Therefore compliance to Directive 2007/19/EC can not be confirmed.

## CEPE / EuPIA – Exclusion List

CEPE is the European Council of producers and importers of paints, printing inks and artists colors, whereas EuPIA is the European Printing Ink Group of CEPE. The printing ink industry voluntarily came up with the Exclusion List for specific substances many years ago.

The raw materials used by Budacolor for the formulation of our printing inks meet the guidelines of the CEPE / EuPIA Exclusion list. This means that CMR-substances (carcinogenic, mutagenic and reprotoxic) plus T (toxic) and T+ (very toxic) are not used in our printing inks.

## Heavy Metals

The Euro Norm 71.3 refers to the max level of heavy metals in children toys. For Budacolor printing inks the limits for heavy metals as listed in the DIN EN 71-3 are met.

Heavy metals are no part of our formulations.

## Hazardous substances

Substances mentioned in the directive 2002/95/EC (RoHS) are not intentionally used in our formulations / printing inks.

SVHC-substances (substances of very high concern): In our products no substances are used which meet the criteria of SVHC-substances (substances of very high concern). SVHC-substances are substances which are classified as CMR 1 & 2, PBT (PBT pollutants are chemicals that are toxic, persist in the environment and bioaccumulate in food chains), vPvB (Substances that are potentially very persistent and very bioaccumulative) und endocrine disruptors (artificial hormones).

The substances listed in the guide line 67/548/EEC (amended by the directive 2006/121/EC) and in the guide line 76/769/EEC are not parts of the formulation of our printing inks.

## Notes:

According to applicable law the manufacturers of the finished article and the filler have the full legal responsibility to ensure that their product is fit for its intended purpose and complies with the applicable rules (not the supplier).

There are many types of final packaging and the printing ink is only one constituent. Since the parameters in the printing, packing and storage processes are not under the control of the printing ink manufacturer, the printing ink suppliers are not able to issue certificates or declarations of compliance which cover the legal responsibility of the entire packaging chain (Text from EuPIA-PIFOOD May 2007).

The statements made in this declaration are according to our current knowledge. They do not absolve the user from its own responsibility to ascertain that our products are suitable for his application.